

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: March 21, 2006, 18:07:45 ; Search time 14.883 Seconds
(without alignments)
261.554 Million cell updates/sec

Title: US-10-768-193-7

737

Perfect score: 1 MGNWTFLLSLGTAHVSE.....RGNWTFDWGQCTTLTVSS 136

Sequence: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 169630 seqs, 2862289 residues

Total number of hits satisfying chosen parameters: 169630

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA New:*

1: /cgn2_6/prodata/1/pubppa/US08_NEW_PUB pep:*\n2: /cgn2_6/prodata/1/pubppa/US06_NEW_PUB pep:*\n3: /cgn2_6/prodata/1/pubppa/US07_NEW_PUB pep:*\n4: /cgn2_6/prodata/1/pubppa/PCT_NEW_PUB pep:*\n5: /cgn2_6/prodata/1/pubppa/US09_NEW_PUB pep:*\n6: /cgn2_6/prodata/1/pubppa/US10_NEW_PUB pep:*\n7: /cgn2_6/prodata/1/pubppa/US11_NEW_PUB pep:*\n8: /cgn2_6/prodata/1/pubppa/US60_NEW_PUB pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	571	77.5	115	7	US-11-165-023-16
2	569.5	77.3	117	7	US-11-074-373-39
3	558	75.7	115	7	US-11-165-023-31
4	555	75.3	115	7	US-11-165-023-32
5	541.5	73.5	592	6	US-10-016-686-4
6	541	73.4	138	7	US-11-125-837-22
7	539.5	73.2	139	6	US-10-504-389A-28
8	526	71.4	140	7	US-11-193-512-27
9	502	68.1	140	7	US-11-193-512-63
10	501	68.0	136	7	US-11-250-411-88
11	499.5	67.8	153	7	US-11-126-798-4
12	498.5	67.6	133	6	US-10-932-334-52
13	498.5	67.6	293	7	US-11-116-939-10
14	498.5	67.6	412	7	US-11-116-939-12
15	498.5	67.6	824	7	US-11-116-939-11
16	494	67.0	142	7	US-11-170-453-7
17	491	66.6	130	7	US-11-188-187A-3
18	490	66.5	140	7	US-11-193-512-74
19	488.5	66.5	488	6	US-10-016-686-3
20	487	66.1	462	7	US-11-177-648-9
21	485.5	65.9	138	7	US-11-089-872-3
22	485	65.8	140	7	US-11-183-205-62
23	483.5	65.6	243	6	US-10-016-686-1
24	482	65.4	136	7	US-11-250-411-91
25	480.5	65.2	114	7	US-11-102-743-7

26	480	65.1	119	7	US-11-097-812-71	Sequence 71, App1
27	480	65.1	119	7	US-11-097-812-72	Sequence 72, App1
28	480	65.1	119	7	US-11-097-812-73	Sequence 73, App1
29	480	65.1	119	7	US-11-097-812-74	Sequence 74, App1
30	480	65.1	119	7	US-11-097-812-76	Sequence 76, App1
31	480	65.1	119	7	US-11-097-812-81	Sequence 81, App1
32	480	65.1	136	7	US-11-250-411-95	Sequence 95, App1
33	479	65.0	120	7	US-11-097-812-144	Sequence 144, App
34	478	64.9	140	7	US-11-193-512-78	Sequence 78, App1
35	477	64.7	162	7	US-11-177-648-30	Sequence 30, App1
36	476.5	64.7	120	7	US-11-037-199-5	Sequence 5, App1
37	474.5	64.4	130	7	US-11-179-820-6	Sequence 6, App1
38	473	64.2	119	7	US-11-097-812-63	Sequence 63, App1
39	473	64.2	119	7	US-11-097-812-64	Sequence 64, App1
40	473	64.2	119	7	US-11-097-812-65	Sequence 65, App1
41	473	64.2	119	7	US-11-097-812-70	Sequence 70, App1
42	473	64.2	119	7	US-11-097-812-75	Sequence 81, App1
43	473	64.2	119	7	US-11-097-812-77	Sequence 75, App1
44	473	64.2	119	7	US-11-097-812-80	Sequence 80, App1
45	473	64.2	119	7	US-11-097-812-206	Sequence 206, App

ALIGNMENTS

RESULT 1
US-11-165-023-16
Sequence 16, Application US/11165023
GENERAL INFORMATION:
Publication No. US20060019342A1
APPLICANT: DaiI'Acqua, William
APPLICANT: Wu, Herren
APPLICANT: Dameshroder, Melissa
TITLE OF INVENTION: INCREASING THE PRODUCTION OF RECOMBINANT ANTIBODIES IN MAMMALIAN
FILE REFERENCE: AE700US
CURRENT APPLICATION NUMBER: US/11/165,023
CURRENT FILING DATE: 2005-06-24
PRIOR APPLICATION NUMBER: US 60/583,184
PRIOR FILING DATE: 2004-06-25
PRIOR APPLICATION NUMBER: US 60/624,153
PRIOR FILING DATE: 2004-11-02
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn version 3.3
SEQ ID NO 16
LENGTH: 115
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: recombinant antibody variable region
US-11-165-023-16
Query Match 77.5%; Score 571; DB 7; Length 115;
Best Local Similarity 92.3%; Pred. No. 1e-39;
Matches 108; Conservative 3; Mismatches 4; Indels 2; Gaps 1;
QY 20 EVQLQSGPELVKGTASVKISCKASGYSTGYIMHWKQSHGKSLMIGISYNGATSY 79
Db 1 EVQLQSGPELVKGTASVKISCKASGYSTGYIMHWKQSHGKSLMIGISYNGATSY 60
QY 80 NQKFKKATFTVDTSSITMGNLSITSDSAVYRCAGANWTFDWGQCTTLTVSS 136
Db 61 NQKFKKATFTVDTSSITMGNLSITSDSAVYRCAGANWTFDWGQCTTLTVSS 115
RESULT 2
US-11-074-373-39
Sequence 39, Application US/11074373
GENERAL INFORMATION:
Publication No. US20060024302A1
APPLICANT: Achen et al.
TITLE OF INVENTION: CHIMERIC ANTI-VEGF-D ANTIBODIES AND HUMANIZED ANTI-VEGF-D ANTIBOD.
TITLE OF INVENTION: AND METHODS OF USING SAME

```
FILE REFERENCE: 28967/39969A
CURRENT APPLICATION NUMBER: US/11/074,373
CURRENT FILING DATE: 2005-03-07
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.2
SEQ ID NO 39
LENGTH: 137
TYPE: PRT
ORGANISM: Homo sapiens
US-11-074-373-39

Query Match
Best Local Similarity 77.3%; Score 569.5; DB 7; Length 137;
Best Local Similarity 78.1%; Pred. No. 1.6e-39;
Matches 107; Conservative 13; Mismatches 16; Indels 1; Gaps 1;

Qy 1 MGWTFILFLISGTAGVHSEVLOQSGPELVKTGASVKISCKASGYSFTGYMHWKQSH 60
Db 1 MGWTFILFLISGTAGVHSEVLOQSGPELVKTGASVKISCKASGYSFTGYMHWKQSH 60
61 GKSLEWIGYISCVNGATSNOKFKGATFTVDTSSSTAYMOFNSLTSEDSAVYYCAR 120
61 GKSLEWIGYIDPFGNGDTTINOKFKGATLTVDKSSSTAFMHLNLTSEDSAVYYCARTSY 120

Qy 121 W-VDYWGQGTTLTVSS 136
Db 121 YGGMIDYWGQGTSTVSS 137

RESULT 3
US-11-165-023-31
Sequence 31, Application US/11165023
Publication No. US20060019342A1
GENERAL INFORMATION:
APPLICANT: Dai, Heren
APPLICANT: Dai, Acqua, William
APPLICANT: Damschroder, Melissa
TITLE OF INVENTION: INCREASING THE PRODUCTION OF RECOMBINANT ANTIBODIES IN MAMMALIAN
TITLE OF INVENTION: CELLS BY SITE-DIRECTED MUTAGENESIS
FILE REFERENCE: AE700US
CURRENT APPLICATION NUMBER: US/11/165,023
CURRENT FILING DATE: 2005-06-24
PRIOR APPLICATION NUMBER: US 60/583,184
PRIOR FILING DATE: 2004-06-25
PRIOR APPLICATION NUMBER: US 60/624,153
PRIOR FILING DATE: 2004-11-02
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn version 3.3
SEQ ID NO 31
LENGTH: 115
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: recombinant antibody variable region
US-11-165-023-31

Query Match
Best Local Similarity 75.7%; Score 558; DB 7; Length 115;
Best Local Similarity 90.6%; Pred. No. 1.1e-38;
Matches 106; Conservative 3; Mismatches 6; Indels 2; Gaps 1;

Qy 20 EVLOQSGPELVKTGASVKISCKASGYSFTGYMHWKQSHGKSLWIGYISCVNGATSY 79
Db 1 EVLOQSGPELVKTGASVKISCKASGYSFTGYMHWKQSHGKSLWIGYISCVNGATSY 60
80 NOKFKGATFTVDTSSSTAYMOFNSLTSEDSAVYYCARGANWVDYWGQGTTLTVSS 136
61 ADFKFKATFTVDTSSSTAYMOFNSLTSEDSAVYYCAR--SHANDYWGQGTSTVSS 115

RESULT 4
US-11-165-023-32
Sequence 32, Application US/11165023
Publication No. US20060019342A1
GENERAL INFORMATION:
```

```
APPLICANT: Dai, Acqua, William
APPLICANT: Dai, Heren
APPLICANT: Damschroder, Melissa
TITLE OF INVENTION: INCREASING THE PRODUCTION OF RECOMBINANT ANTIBODIES IN MAMMALIAN
TITLE OF INVENTION: CELLS BY SITE-DIRECTED MUTAGENESIS
FILE REFERENCE: AE700US
CURRENT APPLICATION NUMBER: US/11/165,023
CURRENT FILING DATE: 2005-06-24
PRIOR APPLICATION NUMBER: US 60/583,184
PRIOR FILING DATE: 2004-06-25
PRIOR APPLICATION NUMBER: US 60/624,153
PRIOR FILING DATE: 2004-11-02
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn version 3.3
SEQ ID NO 32
LENGTH: 115
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: recombinant antibody variable region
US-11-165-023-32

Query Match
Best Local Similarity 75.3%; Score 555; DB 7; Length 115;
Best Local Similarity 89.7%; Pred. No. 2e-38;
Matches 105; Conservative 4; Mismatches 6; Indels 2; Gaps 1;

Qy 20 EVLOQSGPELVKTGASVKISCKASGYSFTGYMHWKQSHGKSLWIGYISCVNGATSY 79
Db 1 EVLOQSGPELVKTGASVKISCKASGYSFTGYMHWKQSHGKSLWIGYISCVNGATSY 60
80 NOKFKGATFTVDTSSSTAYMOFNSLTSEDSAVYYCARGANWVDYWGQGTTLTVSS 136
61 ADFKFKATFTVDTSSSTAYMOFNSLTSEDSAVYYCAR--SHANDYWGQGTSTVSS 115

RESULT 5
US-10-016-686-4
Sequence 4, Application US/10016686
Publication No. US20060014222A1
GENERAL INFORMATION:
APPLICANT: Oxford Biomedica (UK) Limited
APPLICANT: Kingeman, Alan
APPLICANT: Kingeman, Susan Mary
APPLICANT: Bebbington, Christopher Robert
APPLICANT: Carol, Miles William
APPLICANT: Ellard, Fiona Margaret
APPLICANT: Myers, Kevin Alan
TITLE OF INVENTION: Antibodies
FILE REFERENCE: 674523-2012
CURRENT APPLICATION NUMBER: US/10/016,686
CURRENT FILING DATE: 2002-11-02
PRIOR APPLICATION NUMBER: PCT/GB00/04317
PRIOR FILING DATE: 2000-11-13
NUMBER OF SEQ ID NOS: 37
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
LENGTH: 592
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: deduced amino acid sequence for the Ig-574 fusion protein
US-10-016-686-4

Query Match
Best Local Similarity 73.5%; Score 541.5; DB 6; Length 592;
Best Local Similarity 75.5%; Pred. No. 1e-36;
Matches 105; Conservative 9; Mismatches 22; Indels 3; Gaps 1;

Qy 1 MGWTFILFLISGTAGVHSEVLOQSGPELVKTGASVKISCKASGYSFTGYMHWKQSH 60
Db 1 MGWTFILFLISGTAGVHSEVLOQSGPELVKTGASVKISCKASGYSFTGYMHWKQSH 60
61 GKSLEWIGYISCVNGATSNOKFKGATFTVDTSSSTAYMOFNSLTSEDSAVYYCAR-- 118
```

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: March 21, 2006, 17:50:10 ; Search time 301.766 Seconds
(without alignments)
198.019 Million cell updates/sec.

Title: US-10-768-193-7
Perfect score: 737
Sequence: 1 MGWIRFLFLSGTAGVHSE.....RGANWVPDYGQGTTLTVSS 136

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378781 residues
Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A_Geneseq_21:*

- 1: geneseqp1980s:*
- 2: geneseqp1930s:*
- 3: geneseqp2000s:*
- 4: geneseqp2001s:*
- 5: geneseqp2002s:*
- 6: geneseqp2003as:*
- 7: geneseqp2003bs:*
- 8: geneseqp2004s:*
- 9: geneseqp2005s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	737	100.0	136	6	ABU08927 Mouse amy
2	640.5	86.9	137	8	ADS94331 Antibody
3	594.5	80.7	135	2	AAW60866 Variable
4	594.5	80.7	135	3	AAV80293 IGM chime
5	594.5	80.7	590	2	AAW31751 H chain s
6	594.5	80.7	590	3	AAW71888 Anti-huma
7	594.5	80.7	590	2	AAW12908 Anti-huma
8	593.5	80.5	135	2	AAW68548 Anti-CD33
9	593.5	80.5	135	4	AAW69682 Murine M1
10	593.5	80.5	135	8	AD047773 Mouse M19
11	590.5	80.1	135	2	AAW28669 p12-h2.3
12	585.5	79.4	139	8	ADS94335 Antibody
13	581	78.8	138	8	ADR73595 Anti-AR a
14	575.5	78.1	137	2	AAW05090 Heavy cha
15	575.5	78.1	467	6	AAE38408 Mouse vlr
16	573.5	77.8	137	2	AAW03724 Anti-huma
17	571	77.5	115	9	AAE34944 Human ant
18	571	77.5	115	9	AAE17185 Epha2-8pe
19	571	77.5	115	9	AAE42985 Epha2 ant
20	567.5	77.0	152	8	ADJ57084 3G4 antiib
21	567.5	77.0	159	8	ADJ57088 3G4-2BVH-
22	564	76.5	138	4	AAW69688 Murine CMV
23	564	76.5	138	8	AD047789 Mouse CMV
24	562.5	76.3	133	8	AD000820 Antibody

25	562.5	76.3	133	8	AD043850 Heavy cha
26	562.5	76.3	133	8	AD043846 Heavy cha
27	562.5	76.3	133	9	AD208854 Mammalian
28	562	76.3	140	2	AAW06213 MAb Co-1
29	562	76.3	140	2	AAW85061 Mouse Co-
30	562	76.3	140	6	AAW58895 Mouse ant
31	562	76.3	438	5	AAE18372 Human pen
32	562	76.3	438	5	ABG76347 Porcion o
33	562	76.3	456	5	AAE18370 Human pen
34	562	76.3	456	5	ABG76345 Mouse DAV
35	562	76.3	456	5	ABG96754 DAV-1 ant
36	562	76.3	493	5	AAE18379 Human N-t
37	562	76.3	493	5	ABG76354 Mouse DAV
38	562	76.3	510	5	AAE18378 Human N-t
39	562	76.3	510	5	ABG76353 Mouse DAV
40	562	76.3	597	5	AAE18377 Human N-t
41	562	76.3	597	5	ABG76352 Mouse DAV
42	562	76.3	613	5	AAE18380 Human N-t
43	562	76.3	613	5	ABG76355 Mouse DAV
44	557.5	75.6	215	3	AAU78254 Mouse ag9
45	557	75.6	132	2	AAW03183 Guy's 13

ALIGNMENTS

RESULT 1	
ABU08927	ABU08927 standard; protein; 136 AA.
XX	AC ABU08927;
XX	AC
DT	03-JUN-2003 (first entry)
XX	XX
XX	Mouse amyloid beta antibody heavy chain variable region.
XX	XX
XX	Mouse; antibody; beta-amyloid fibril inhibitor; Alzheimer's disease;
KW	GMI ganglioside-bound amyloid beta protein; amyloid beta protein;
KW	amyloid fibril formation inhibition; heavy chain; variable region.
XX	XX
XX	Mus musculus.
OS	OS
XX	XX
XX	Key
XX	Peptide
FT	Location/Qualifiers
FT	1..19
FT	/label= Signal_sequence
FT	20..136
FT	/note= "Mature GMI ganglioside-bound amyloid beta
FT	antibody heavy chain variable region."
FT	50..54
FT	/label= CDR1
FT	/note= "Complementarity determining region 1.
FT	Specifically claimed in claim 1"
FT	69..85
FT	/label= CDR2
FT	/note= "Complementarity determining region 2.
FT	Specifically claimed in claim 1"
FT	118..125
FT	/label= CDR3
FT	/note= "Complementarity determining region 3.
FT	Specifically claimed in claim 1"
XX	XX
XX	MO2003014162-A1.
XX	XX
XX	20-FEB-2003.
XX	XX
XX	01-AUG-2002; 2002MO-JP007874.
XX	XX
XX	03-AUG-2001; 2001JP-00235700.
XX	XX
XX	(MEDI-) MEDICAL & BIOLOGICAL LAB CO LTD.
XX	(NICH-) JAPAN CHUBU NAT HOSPITAL.
XX	(YANA/) YANAGISAWA K.

PI Yanagisawa K, Shibata M;
 XX WPI; 2003-268182/26.
 DR N-PSDB; ABX93688.
 XX Antibodies recognizing GM1 ganglioside-bound amyloid beta-protein and
 PT encoded DNAs, useful in diagnosing, preventing or treating Alzheimer's
 XX disease by inhibiting early-stage beta-amyloid fibril formation.
 XX
 XX Claim 4; Fig 1; 60pp; Japanese.
 CC The invention relates to four antibodies recognising GM1 ganglioside-
 CC bound amyloid beta protein and having inhibitory activity on the
 CC formation of amyloid fibril. The antibodies are useful in diagnosing,
 CC preventing or treating Alzheimer's disease by inhibiting early-stage beta
 CC -amyloid fibril formation. The antibody does not recognise soluble
 CC amyloid beta-protein, and thus drugs produced from the antibodies are
 CC efficacious in treating Alzheimer's disease. The present sequence
 CC represents the amino acid sequence of mouse GM1 ganglioside-bound amyloid
 CC beta antibody heavy chain variable region
 XX
 XX Sequence 136 AA;
 SO
 Query Match 100.0%; Score 737; DB 6; Length 136;
 Best Local Similarity 100.0%; Pred. No. 4,2e-52;
 Matches 136; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MGWIMIFLFLISGTAGVHSEVQLQSGPELVKTGASVKISKAGSYSTGYMMVKOSH 60
 DB 1 MGWIMIFLFLISGTAGVHSEVQLQSGPELVKTGASVKISKAGSYSTGYMMVKOSH 60
 QY 61 GKSLEWIGYISCVNGATSYNCKFKGKATFTVDTSSSTAYVMOFNSLTSDSAVYYCARGAN 120
 DB 61 GKSLEWIGYISCVNGATSYNCKFKGKATFTVDTSSSTAYVMOFNSLTSDSAVYYCARGAN 120
 QY 121 WVPDYWGQGTTLTVSS 136
 DB 121 WVPDYWGQGTTLTVSS 136
 RESULT 2
 ADS94331
 ID ADS94331 standard; protein; 137 AA.
 AC ADS94331;
 XX
 DT 02-DEC-2004 (first entry)
 XX
 DE Antibody 368.1 heavy chain variable region (368.1H) SEQ ID NO:30.
 XX
 KW antibody; antigen-binding antibody fragment;
 KW cell-associated CA 125/0772P; monoclonal antibody; cytostatic;
 KW immunostimulant; mediator of lysis; tumour; cell proliferative disorder;
 KW cancer; cervical cancer; uterine cancer; breast cancer; lung cancer;
 KW ovarian cancer.
 XX
 OS Synthetic.
 XX
 PN MO2004035537-A2.
 XX
 PD 29-APR-2004.
 XX
 PF 15-OCT-2003; 2003WO-US032945.
 XX
 PR 16-OCT-2002; 2002US-0418828P.
 XX
 PR 10-JUL-2003; 2003US-0485986P.
 XX
 PA (EURO-) EUROCELTICQUE SA.
 XX
 PI Albane EF, Soltis DA;
 XX
 WPI; 2004-357171/33.
 DR
 N-PSDB; ADS94339.

XX
 PT Novel isolated antibody, or antigen-binding antibody fragment binding
 PT with cell-associated CA 125/0772P polypeptide relative to shed CA
 PT 125/0772 polypeptide, useful for ameliorating cervical or ovarian cancer.
 XX
 PS Claim 36; SEQ ID NO 30; 153pp; English.
 XX
 CC The present invention describes an isolated antibody, or an antigen-
 CC binding antibody fragment (I), that preferentially binds cell-associated
 CC CA 125/0772P polypeptide relative to shed CA 125/0772 polypeptide. Also
 CC described: (1) a monoclonal antibody (II) produced by hybridoma 4E7; (2)
 CC a monoclonal antibody that competes with binding of (II); (3) a hybridoma
 CC as deposited in (II); (4) an isolated nucleic acid molecule (III)
 CC comprising a nucleotide sequence that encodes a variable chain region of
 CC (I); (5) a pharmaceutical composition comprising an antibody or an
 CC antigen-binding antibody fragment that preferentially binds cell-
 CC associated CA 125/0772P polypeptide relative to shed CA 125/0772P
 CC polypeptide, and a carrier; (6) a pharmaceutical composition comprising a
 CC monoclonal antibody or an antigen-binding monoclonal antibody fragment
 CC that preferentially binds cell-associated CA 125/0772P polypeptide
 CC relative to shed CA 125/0772P polypeptide, and a carrier; (7) an article
 CC of manufacture (IV) comprising packaging material and a composition
 CC comprising an antibody, or an antigen-binding antibody fragment that
 CC preferentially binds cell-associated CA 125/0772P relative to shed CA
 CC 125/0772P, and a carrier contained within the packaging material; and
 CC composition in a form suitable for administration to a subject; (8) a
 CC fusion polypeptide (V) comprising an antibody, or an antigen-binding
 CC antibody fragment, which preferentially binds cell-associated CA
 CC 125/0772P relative to shed CA 125/0772P operably linked to a heterologous
 CC agent; (9) ameliorating (M1) a symptom of a CA 125/0772P-related disorder
 CC (10) a monoclonal antibody (VI) chosen from 325.1, 621.1, 633.1, 654.1,
 CC 725.1, 869, 7F10, 8A1, 8AC3, 15C9, 8E3, 8B5, 7G10, 16C7, 7C6, 7H1, 16H9,
 CC 7A11, 4E7, 117.1, 368.1, 446.1, 501.1, and 776.1 or its antigen-binding
 CC antibody fragment; (11) an antibody or antigen binding antibody fragment
 CC that competes with (VI); and (12) a pharmaceutical composition comprising
 CC (VI) and a carrier. (I) has cytostatic activity, and can be used as an
 CC immunostimulant and a mediator of lysis of positive tumour cell. (I) is
 CC useful for ameliorating a symptom of a CA 125/0772P-related disorder which
 CC is a cell proliferative disorder such as cancer, cervical or uterine
 CC cancer, breast or lung cancer or ovarian cancer. (V) is useful
 CC diagnostically for monitoring the development or progression of cancer or
 CC tumour as part of clinical testing procedure. The present sequence
 CC represents an antibody heavy chain variable region amino acid sequence,
 CC which is used in the exemplification of the present invention.
 XX
 XX Sequence 137 AA;
 SO
 Query Match 86.9%; Score 640.5; DB 8; Length 137;
 Best Local Similarity 87.6%; Pred. No. 2.8e-44;
 Matches 120; Conservative 8; Mismatches 8; Indels 1; Gaps 1;
 QY 1 MGWIMIFLFLISGTAGVHSEVQLQSGPELVKTGASVKISKAGSYSTGYMMVKOSH 60
 DB 1 MGWIMIFLFLISGTAGVHSEVQLQSGPELVKTGASVKISKAGSYSTGYMMVKOSH 60
 QY 61 GKSLEWIGYISCVNGATSYNCKFKGKATFTVDTSSSTAYVMOFNSLTSDSAVYYCAR GA 119
 DB 61 GKSLEWIGYISCVNGATSYNCKFKGKATFTVDTSSSTAYVMOFNSLTSDSAVYYCARBGD 120
 QY 120 WVPDYWGQGTTLTVSS 136
 DB 120 WVPDYWGQGTTLTVSS 136
 QY 121 YSMDPFWGQGTSTVSS 137
 DB 121 YSMDPFWGQGTSTVSS 137
 RESULT 3
 AAW60866
 ID AAW60866 standard; protein; 135 AA.
 AC AAW60866;
 XX
 DT 10-SEP-1998 (first entry)
 XX
 DE Variable region of an anti-Fas antibody heavy chain.

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: March 21, 2006, 18:00:46 ; Search time 25.1472 Seconds
(without alignments)
520.356 Million cell updates/sec

Title: US-10-768-193-7

Perfect score: 737
Sequence: 1 MGWIMFLFLSLGAGVHSE.....RGANWVFDYMGQTTLVSS 136

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database :

1: Pir1.*
2: Pir2.*
3: Pir3.*
4: Pir4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	596	80.9	140	2 T01407	Ig heavy chain (my
2	592.5	80.4	137	2 H32513	Ig heavy chain pre
3	583.5	79.2	139	2 A27609	Ig heavy chain pre
4	561.5	76.2	135	2 P60057	Ig heavy chain pre
5	558	75.7	138	2 PH0105	anti-digoxin trans
6	540.5	73.3	469	2 S37483	Ig gamma-2a chain
7	540	73.3	117	1 HVM58A	Ig heavy chain pre
8	532	72.2	140	2 PH1482	Ig heavy chain v r
9	527	71.5	138	2 S45249	Ig heavy chain pre
10	527	71.5	151	2 PL0011	Ig heavy chain pre
11	522	70.8	140	2 PH1489	Ig heavy chain v r
12	521	70.7	166	2 PL0012	Ig heavy chain pre
13	519	70.4	140	1 HVM5G7	Ig heavy chain pre
14	514.5	69.8	150	2 PH0444	Ig heavy chain v r
15	514	69.7	136	1 HVM5B1	Ig heavy chain pre
16	511.5	69.4	474	1 GZMS11	Ig gamma-2b chain
17	510	69.2	140	2 PH1488	Ig heavy chain v r
18	507	68.8	117	1 HVM54E	Ig heavy chain v r
19	505	68.5	117	1 HVM5J5	Ig heavy chain v r
20	505	68.5	135	2 PH1493	Ig heavy chain v r
21	505	68.5	140	2 PH1484	Ig heavy chain v r
22	504	68.4	135	2 PH1492	Ig heavy chain v r
23	501.5	68.0	112	2 S09957	Ig heavy chain v-D
24	501	68.0	138	2 S21810	Ig heavy chain v r
25	500	67.8	140	2 A26194	Ig heavy chain v r
26	499.5	67.8	139	1 PH1498	Ig heavy chain v r
27	498.5	67.6	119	2 P30502	Ig heavy chain pre
28	498.5	67.6	119	2 P30502	Ig heavy chain pre
29	495.5	67.2	139	2 P80024	Ig heavy chain pre

30	493	66.9	140	2 PH1486	Ig heavy chain v r
31	493	66.9	140	2 PH1483	Ig heavy chain v r
32	491	66.6	136	2 PL0208	Ig heavy chain pre
33	488.5	66.3	141	2 JL0076	Ig heavy chain pre
34	487.5	66.1	128	2 I37267	Ig heavy chain v r
35	481.5	65.3	120	2 A49982	Ig heavy chain v r
36	481.5	65.3	133	2 PC1155	Ig heavy chain pre
37	480.5	65.2	122	2 PH0887	Ig heavy chain v r
38	479.5	65.1	118	1 HVM538	Ig heavy chain v r
39	479	65.0	135	2 PH1494	Ig heavy chain v r
40	478	64.9	138	2 E32513	Ig heavy chain pre
41	475	64.5	118	2 PL0200	anti-DNA autoantib
42	474.5	64.4	141	2 A39276	Ig heavy chain pre
43	473.5	64.2	137	1 GZMS43	Ig heavy chain pre
44	472	64.0	246	2 S38950	Ig gamma chain v r
45	472	64.0	446	2 S40295	Ig gamma-2a chain

ALIGNMENTS

RESULT 1

T01407
Ig heavy chain (myeloma M104E) - mouse (fragment)

C/Species: Mus sp. (mouse)

C/Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 20-Jun-2000

C/Accession: T01407

R/Takahashi, S.; Matsura, Y.; Taniguchi, T.; Tamura, H.; Bitch, S.; Onishi, S.; Yamamoto
Microbiol. Immunol. 36, 855-863, 1992

A/Title: Molecular analysis of immunoglobulin heavy chain genes coding for idiotypic and

A/Reference number: 214317; MUID:93116638; PMID:1474935

A/Accession: T01407

A/Status: translated from GB/EMBL/DBD

A/Molecule type: mRNA

A/Residues: 1-140 <TRAK>

C/Superfamily: UNIPARC:UPI000011B29E; EMBL:S51851; NID:9262657

C/Supersubfamily: immunoglobulin V region; immunoglobulin homology

Query Match

Best Local Similarity 80.9%; Score 596; DB 2; Length 140;

Best Local Similarity 83.8%; Pred. No. 1.3e-43;

Matches 114; Conservative 5; Mismatches 17; Indels 0; Gaps 0;

Qy 1 MGWIMFLFLSLGAGVHSEVQLQSGPELVKTSASVKISCKASGYSTGYMHWKOSH 60

Db 1 MGWIMFLFLSLGAGVHSEVQLQSGPELVKTSASVKISCKASGYSTGYMHWKOSH 60

Qy 61 GKSLEWIGYISCVNGATSYNQEFKGAFTVDTSSSTAYMQFNSLTSEDSAVYVCARGAN 120

Db 61 GKSLEWIGYISCVNGATSYNQEFKGAFTVDTSSSTAYMQFNSLTSEDSAVYVCARGAN 120

Qy 121 WFDYMGQTTLVSS 136

Db 121 WFDYMGQTTLVSS 136

Qy 121 WFDYMGQTTLVSS 136

Db 121 WFDYMGQTTLVSS 136

Qy 121 WFDYMGQTTLVSS 136

Db 121 WFDYMGQTTLVSS 136

Qy 121 WFDYMGQTTLVSS 136

Db 121 WFDYMGQTTLVSS 136

Qy 121 WFDYMGQTTLVSS 136

Db 121 WFDYMGQTTLVSS 136

Qy 121 WFDYMGQTTLVSS 136

Db 121 WFDYMGQTTLVSS 136

Qy 121 WFDYMGQTTLVSS 136

Db 121 WFDYMGQTTLVSS 136

Qy 121 WFDYMGQTTLVSS 136

Db 121 WFDYMGQTTLVSS 136

Qy 121 WFDYMGQTTLVSS 136

Db 121 WFDYMGQTTLVSS 136

Qy 121 WFDYMGQTTLVSS 136

Db 121 WFDYMGQTTLVSS 136

Qy 121 WFDYMGQTTLVSS 136

Db 121 WFDYMGQTTLVSS 136

Qy 121 WFDYMGQTTLVSS 136

Db 121 WFDYMGQTTLVSS 136

Qy 121 WFDYMGQTTLVSS 136

Db 121 WFDYMGQTTLVSS 136

Qy 121 WFDYMGQTTLVSS 136

Db 121 WFDYMGQTTLVSS 136

Qy 121 WFDYMGQTTLVSS 136

Db 121 WFDYMGQTTLVSS 136

Query Match 80.4%; Score 592.5; DB 2; Length 137;
 Best Local Similarity 84.2%; Pred. No. 2.5e-43;
 Matches 117; Conservative 6; Mismatches 11; Indels 5; Gaps 2;

QY 1 MGVWIFFLISGTAGVHSEVQLQSGPELVKTGASVKISCKASGYSTGYMHWKQSH 60
 DB 1 MGVWIFFLISGTAGVHSEVQLQSGPELVKTGASVKISCKASGYSTGYMHWKQSH 60
 QY 61 GKSLEWIGYISCVNGATSYNOKFKGKATFTVDTSSSTAYMQFNLSLSEDSAVYYCAR-- 117
 DB 61 GKSLEWIGYISCVNGATSYNOKFKGKATFTVDTSSSTAYMQFNLSLSEDSAVYYCAR-- 120
 QY 118 GANWFDYWGQGTTLTVSS 136
 DB 121 GSS--FDYWGQGTTLTVSS 137

RESULT 3
 A27609
 Ig heavy chain precursor V region (I29) - mouse
 C:Species: Mus musculus (house mouse)
 C:Date: 15-Dec-1988 #sequence_revision 30-Jun-1991 #text_change 23-Jul-1999
 C:Accession: A27609
 R:Klein, D.; Metupski, J.; Sirin, S.; Stavnezer, J.
 J. Immunol. 140, 1676-1684, 1988
 A:Title: I.29 lymphoma cells express a nonmutated V-H gene before and after H chain switch
 A:Reference number: A27609; MUID:88154467; PMID:3126234
 A:Accession: A27609
 A:Molecule type: DNA
 A:Residues: 1-139 <KLE>
 A:Cross-references: UNIPARC:UPI0000114D5D; EMBL:M19401; NID:g195441; PIDN:AAA38303.1; PI
 C:Genetics:
 A:Introns: 16/1
 C:Superfamily: Immunoglobulin V region; immunoglobulin homology
 C:Keywords: heterotetramer; immunoglobulin
 F:1-19/Domain: signal sequence #status predicted <SIG>
 F:20-139/Product: Ig heavy chain V region I29 #status predicted <VAR>
 F:34-117/Domain: immunoglobulin homology <IMM>

Query Match 79.2%; Score 583.5; DB 2; Length 139;
 Best Local Similarity 81.3%; Pred. No. 1.5e-42;
 Matches 113; Conservative 9; Mismatches 14; Indels 3; Gaps 1;

QY 1 MGVWIFFLISGTAGVHSEVQLQSGPELVKTGASVKISCKASGYSTGYMHWKQSH 60
 DB 1 MGVWIFFLISGTAGVHSEVQLQSGPELVKTGASVKISCKASGYSTGYMHWKQSH 60
 QY 61 GKSLEWIGYISCVNGATSYNOKFKGKATFTVDTSSSTAYMQFNLSLSEDSAVYYCAR-- 120
 DB 61 GKSLEWIGYISCVNGATSYNOKFKGKATFTVDTSSSTAYMQFNLSLSEDSAVYYCAR-- 120
 QY 121 WVF--DYWGQGTTLTVSS 136
 DB 121 YSYAMDYWGQGTSTVSS 139

RESULT 4
 PS0057
 Ig heavy chain precursor V region (PAR) - mouse
 C:Species: Mus musculus (house mouse)
 C:Date: 31-Mar-1990 #sequence_revision 31-Mar-1990 #text_change 20-Jun-2000
 C:Accession: PS0057
 R:Raulet, Y.; Takahashi, M.; Azuma, C.; Kanai, Y.; Honjo, T.
 J. Biochem. 104, 337-343, 1988
 A:Title: Biased expression of variable region gene families of the immunoglobulin heavy
 A:Reference number: PS0057; MUID:89197817; PMID:2467902
 A:Accession: PS0057
 A:Molecule type: DNA
 A:Residues: 1-135 <YAO>
 A:Cross-references: UNIPARC:UPI000011B557; GB:ID00307; NID:g220448; PIDN:BA00213.1; PID
 A:Notes: The authors translated the codon AAG for residue 32 as Asn and GAC for 92 as Gly
 C:Comment: The gene encoding this protein was isolated from a hybridoma that produces an
 C:Superfamily: immunoglobulin V region; immunoglobulin homology

C:Keywords: heterotetramer; immunoglobulin
 F:1-19/Domain: signal sequence #status predicted <SIG>
 F:20-135/Product: Ig heavy chain V region PAR #status predicted <MAT>
 F:34-117/Domain: immunoglobulin homology <IMM>

Query Match 76.2%; Score 561.5; DB 2; Length 135;
 Best Local Similarity 80.9%; Pred. No. 1e-40;
 Matches 110; Conservative 8; Mismatches 17; Indels 1; Gaps 1;

QY 1 MGVWIFFLISGTAGVHSEVQLQSGPELVKTGASVKISCKASGYSTGYMHWKQSH 60
 DB 1 MGVWIFFLISGTAGVHSEVQLQSGPELVKTGASVKISCKASGYSTGYMHWKQSH 60
 QY 61 GKSLEWIGYISCVNGATSYNOKFKGKATFTVDTSSSTAYMQFNLSLSEDSAVYYCAR-- 120
 DB 61 GKSLEWIGYISCVNGATSYNOKFKGKATFTVDTSSSTAYMQFNLSLSEDSAVYYCAR-- 119
 QY 121 WVF--DYWGQGTTLTVSS 136
 DB 120 YRGAVWGQGTTLTVSSA 135

RESULT 5
 PH0105
 anti-digoxin transfectoma antibody light chain V region precursor - mouse (fragment)
 C:Species: Mus musculus (house mouse)
 C:Date: 16-Jul-1999 #sequence_revision 16-Jul-1999 #text_change 21-Jul-2000
 C:Accession: PH0105
 J.Near, R.I.; Ng, S.C.; Mudgett-Hunter, M.; Hudson, N.W.; Margolies, M.N.; Seidman, J.G.
 Mol. Immunol. 27, 901-909, 1990
 A:Title: Heavy and light chain contributions to antigen binding in an anti-digoxin chain
 A:Reference number: PH0105; MUID:91015092; PMID:2120577
 A:Accession: PH0105
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-138 <NEA>
 A:Cross-references: UNIPARC:UPI0000115EC4; GB:X56622; GB:S44836; NID:g49875; PIDN:CAA3994
 C:Superfamily: immunoglobulin V region; immunoglobulin homology
 F:34-117/Domain: immunoglobulin homology <IMM>

Query Match 75.7%; Score 558; DB 2; Length 138;
 Best Local Similarity 76.1%; Pred. No. 2.1e-40;
 Matches 105; Conservative 12; Mismatches 19; Indels 2; Gaps 1;

QY 1 MGVWIFFLISGTAGVHSEVQLQSGPELVKTGASVKISCKASGYSTGYMHWKQSH 60
 DB 1 MGVWIFFLISGTAGVHSEVQLQSGPELVKTGASVKISCKASGYSTGYMHWKQSH 60
 QY 61 GKSLEWIGYISCVNGATSYNOKFKGKATFTVDTSSSTAYMQFNLSLSEDSAVYYCAR-- 118
 DB 61 GKSLEWIGYISCVNGATSYNOKFKGKATFTVDTSSSTAYMQFNLSLSEDSAVYYCAR-- 120
 QY 119 ANWFDYWGQGTTLTVSS 136
 DB 121 NKWAMDYWGASVTVSS 138

RESULT 6
 S37483
 Ig gamma-2a chain - mouse
 C:Species: Mus musculus (house mouse)
 C:Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 23-Jul-1999
 C:Accession: S37483
 R:Ducancel, F.F.D.
 Submitted to the EMBL Data Library, February 1993
 A:Reference number: S37483
 A:Accession: S37483
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-469 <DUC>
 A:Cross-references: UNIPARC:UPI000002PB47; EMBL:X70423; NID:g406252; PIDN:CAA49868.1; PI
 C:Superfamily: immunoglobulin C region; immunoglobulin homology
 C:Keywords: immunoglobulin

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM protein - protein search, using sw model

Run on: March 21, 2006, 17:50:40 ; Search time 151.396 Seconds

(without alignments)
633.780 Million cell updates/sec

Title: US-10-768-193-7

Sequence: 1 MGVNIFPLSLGTAHVSE.....RGANNVFDYWGQITLTVSS 136

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2166443 seqs, 705528306 residues

Total number of hits satisfying chosen parameters: 2166443

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Uniprot 05.80:*
1: uniprot_sprot:*
2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	605	82.1	470	Q7TMK1_MOUSE	Q7tmk1 mus musculu
2	592	80.3	472	Q6PJAT_MOUSE	Q6pjat mus musculu
3	586	79.5	483	Q4VAB6_MOUSE	Q4vab6 mus musculu
4	567.5	77.0	488	Q9JWRI_MOUSE	Q9jwri mus musculu
5	548	74.4	477	Q58B56_MOUSE	Q58b56 mus musculu
6	546	74.1	481	Q9JWRI_MOUSE	Q9jwri mus musculu
7	542.5	73.6	481	Q8VCV5_MOUSE	Q8vcv5 mus musculu
8	540	73.3	117	HV14_MOUSE	P01758 mus musculu
9	539.5	73.2	465	Q6PJ22_MOUSE	Q6pj22 mus musculu
10	539	73.1	118	Q5RX30_MOUSE	Q5rx30 mus musculu
11	519	70.4	143	HV02_MOUSE	P01746 mus musculu
12	516.5	70.1	610	Q8VCX7_MOUSE	Q8vcx7 mus musculu
13	516	70.0	117	Q9QXFO_MOUSE	Q9qxfo mus musculu
14	514	69.7	134	Q65ZRE_MOUSE	Q65zre mus musculu
15	514	69.7	136	HV15_MOUSE	P01759 mus musculu
16	510	69.2	468	Q56WC9_MOUSE	Q56wc9 mus musculu
17	509	69.1	168	Q8VDC9_MOUSE	Q8vdc9 mus musculu
18	507	68.8	117	HV12_MOUSE	P01756 mus musculu
19	505	68.5	117	HV13_MOUSE	P01757 mus musculu
20	502	68.1	475	Q5EVP3_RAT	Q5evp3 rattus norv
21	501	68.0	117	Q9QX89_MOUSE	Q9qx89 mus musculu
22	499.5	67.8	139	HV07_MOUSE	P01751 mus musculu
23	499	67.7	473	Q9Q8L4_MOUSE	Q9q8l4 mus musculu
24	496.5	67.4	590	Q4Y9V8_MOUSE	Q4y9v8 mus musculu
25	496.5	67.4	617	Q4KML5_MOUSE	Q4kml5 mus musculu
26	494.5	67.1	485	Q58B61_MOUSE	Q58b61 mus musculu
27	491.5	66.7	463	Q99LCA_MOUSE	Q99lca mus musculu
28	491	66.6	480	Q8K0Z4_MOUSE	Q8k0z4 mus musculu
29	488	66.2	464	Q6PF95_MOUSE	Q6pf95 mus musculu
30	488	66.2	614	Q7TME6_MOUSE	Q7tme6 mus musculu
31	485.5	65.9	482	Q8K172_MOUSE	Q8k172 mus musculu

32	484.5	65.7	591	Q4QW00_RAT	Q4qww0 rattus norv
33	480	65.1	616	Q50AM7_MOUSE	Q50am7 mus musculu
34	479.5	65.1	118	HV51_MOUSE	P06330 mus musculu
35	479.5	65.0	458	Q5BK05_RAT	Q5bk05 rattus norv
36	477.5	64.8	598	Q568Y0_RAT	Q568y0 rattus norv
37	475	64.5	458	Q5BJ22_RAT	Q5bj22 rattus norv
38	473.5	64.2	137	HV11_MOUSE	P01755 mus musculu
39	473	64.2	483	Q52L51_MOUSE	Q52l51 mus musculu
40	470.5	63.8	487	Q5ZL22_MOUSE	Q5zl22 mus sp. fv
41	467	63.4	489	Q8VCX4_MOUSE	Q8vcx4 mus musculu
42	464	63.0	117	HV52_MOUSE	P06327 mus musculu
43	463	62.8	120	Q920E8_MOUSE	Q920e8 mus musculu
44	461.5	62.6	488	Q8K0F2_MOUSE	Q8k0f2 mus musculu
45	458.5	62.2	486	Q5HZY6_MOUSE	Q5hzy6 mus musculu

ALIGNMENTS

RESULT 1
Q7TMK1_MOUSE
ID Q7TMK1_MOUSE PRELIMINARY; PRT; 470 AA.
AC Q7TMK1;
DT 01-OCT-2003 (TREMBLrel. 25, Created)
DT 01-OCT-2003 (TREMBLrel. 25, Last sequence update)
DT 01-MAR-2004 (TREMBLrel. 26, Last annotation update)
DE Hypothetical protein A1324046.
GN Name=A1324046;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=CZECH II;
RC TISSUE=Mammary tumor metastasized to lung. MMTV-LTR/Mnt1 model.
RC Expression driven by an MMTV-LTR enhancer.
RC MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnae.242603899;
RX Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diachenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.B.,
RA Brownstein M.J., Ueda T.B., Yoshiyuki S., Carninci P., Prange C.,
RA Rabe S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahy J., Hellon E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butlerfield Y.S.N., Krzywinski M.I., Skalska U., Smalins D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences".
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=CZECH II;
RC TISSUE=Mammary tumor metastasized to lung. MMTV-LTR/Mnt1 model.
RC Expression driven by an MMTV-LTR enhancer.
RX Strausberg R.L.;
RA Submitted (Aug-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC055910; AAH55910.1; -; mRNA.
DR HSSP; P01865; IKB5.
DR GO; GO:0003823; F:antigen binding; IEA.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003597; IG-cl.
DR InterPro; IPR003006; IG_MHC.
DR InterPro; IPR003596; IG_v.

DR Pfam: PF07654; Cl-sect: 3.
DR SMART: SM00406; IGV: 1.
DR PROSITE: PSS0835; IG_LIKE: 4.
DR PROSITE: PS00290; IG_MHC; UNKNOWN_1.
DR Hypothetical protein; Immunoglobulin domain.
SQ SEQUENCE 470 AA; 51728 MW; 6D90E4DF86B090 CRC64;
Query Match 82.1%; Score 605; DB 2; Length 470;
Best Local Similarity 82.1%; Pred. No. 1.8e-50;
Matches 115; Conservative 7; Mismatches 14; Indels 4; Gaps 1;
QY 1 MGWIFLFLSLGTAAGVSEVQLQSGPELVKAGASVKISCKASGYSFTGYMHWKQSH 60
DB 1 MGMSWIFLFLSLGTAAGVSEVQLQSGPELVKAGASVKISCKASGYSFTGYMHWKQSH 60
QY 61 GKSLEWIGYISCVNGATSYNOKFKGKATFTVDTSSSTAYMGNLSLSEDSAVYYCAR-- 117
DB 61 GKSLEWIGYISCVNGATSYNOKFKGKATFTVDTSSSTAYMGNLSLSEDSAVYYCAR 120
QY 118 -GANWYFDVWGQGTTLTVSS 136
DB 121 SGSYWYFDVWGAGTIVTVSS 140
RESULT 2
Q6PUJ7 MOUSE PRELIMINARY; PRT; 472 AA.
AC Q6PUJ7
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Hypothetical protein.
GN Name=Igh-1a;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RX [1]
RN NUCLEOTIDE SEQUENCE.
RC STRAIN=Czech II;
RC TISSUE=Mammary tumor metastasized to lung. MMTV-LTR/mtcl model.
RC Expression driven by an MMTV-LTR enhancer.;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Hsieh F.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Ueda T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Morley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smilgus D.E.,
RA Scherch A., Schein J.E., Jones S.J.M., Marra M.A.,
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=Czech II;
RC TISSUE=Mammary tumor metastasized to lung. MMTV-LTR/mtcl model.
RC Expression driven by an MMTV-LTR enhancer.;
RA Strausberg R.;
RL Submitted (DEC-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL: BC018535; AAI18535.1; -; mRNA.
DR HSSP: P01865; 1KB5.

DR MGI: 96443; Igh-1a.
DR GO: GO:0003823; P antigen binding; IEA.
DR InterPro: IPR003599; IG.
DR InterPro: IPR007110; IG-like.
DR InterPro: IPR003597; IG-CL.
DR InterPro: IPR003006; IG_MHC.
DR InterPro: IPR003596; IG_V.
DR Pfam: PF07654; Cl-sect: 3.
DR SMART: SM00409; IG_2.
DR SMART: SM00407; IGL1; 3.
DR SMART: SM00406; IGV; 1.
DR PROSITE: PSS0835; IG_LIKE: 4.
DR PROSITE: PS00290; IG_MHC; UNKNOWN_1.
DR Hypothetical protein.
SQ SEQUENCE 472 AA; 52299 MW; 165169C23D55D4AB CRC64;
Query Match 80.3%; Score 592; DB 2; Length 472;
Best Local Similarity 80.3%; Pred. No. 3.4e-49;
Matches 114; Conservative 6; Mismatches 16; Indels 6; Gaps 1;
QY 1 MGWIFLFLSLGTAAGVSEVQLQSGPELVKAGASVKISCKASGYSFTGYMHWKQSH 60
DB 1 MGMSWIFLFLSLGTAAGVSEVQLQSGPELVKAGASVKISCKASGYSFTGYMHWKQSH 60
QY 61 GKSLEWIGYISCVNGATSYNOKFKGKATFTVDTSSSTAYMGNLSLSEDSAVYYCAR-- 118
DB 61 GKSLEWIGYISCVNGATSYNOKFKGKATFTVDTSSSTAYMGNLSLSEDSAVYYCAR 120
QY 119 -GANWYFDVWGQGTTLTVSS 136
DB 121 SYSYDHYFDVWGQGTTLTVSS 142
RESULT 3
Q4VAB6 MOUSE PRELIMINARY; PRT; 483 AA.
ID Q4VAB6
DT 13-SEP-2005 (TrEMBLrel. 31, Created)
DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
DE Hypothetical protein.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RX [1]
RN NUCLEOTIDE SEQUENCE.
RC STRAIN=FVB/N; TISSUE=Colon;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Hsieh F.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Ueda T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Morley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smilgus D.E.,
RA Scherch A., Schein J.E., Jones S.J.M., Marra M.A.,
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=FVB/N; TISSUE=Colon;

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: March 21, 2006, 18:06:30 ; Search time 122.657 Seconds
(without alignments)
463.284 Million cell updates/sec

Title: US-10-768-193-7

Perfect score: 737

Sequence: 1 MGWIMIFFLSLGAGVHSE.....RGANVPDYWGQGTTLTVSS 136

Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA Main:
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	737	100.0	136	4	US-10-768-193-7
2	640.5	86.9	137	5	US-10-687-035-30
3	601.5	81.6	137	4	US-10-462-062-153
4	601.5	81.6	137	4	US-10-462-062-154
5	593.5	80.5	135	4	US-10-389-155-60
6	593.5	80.5	135	4	US-10-389-417-60
7	593.5	80.5	135	4	US-10-452-357-69
8	593.5	80.5	135	5	US-10-837-904-27
9	585.5	78.4	139	5	US-10-687-035-34
10	581	78.8	138	4	US-10-774-076-9
11	575.5	78.1	138	5	US-10-500-696-2
12	571	77.5	115	5	US-10-994-129-21
13	571	77.5	115	6	US-11-004-795A-53
14	571	77.5	115	6	US-11-004-794A-53
15	567.5	77.0	152	4	US-10-642-120-2
16	567.5	77.0	152	4	US-10-642-060-2
17	567.5	77.0	152	4	US-10-642-122-2
18	567.5	77.0	152	4	US-10-642-059-2
19	567.5	77.0	152	4	US-10-642-124-2
20	567.5	77.0	152	4	US-10-621-269-2
21	567.5	77.0	152	4	US-10-620-850-2
22	567.5	77.0	152	4	US-10-642-118-2
23	567.5	77.0	152	4	US-10-642-119-2
24	567.5	77.0	152	4	US-10-642-117-2
25	567.5	77.0	152	5	US-10-642-099-2
26	567.5	77.0	152	5	US-10-642-064-2
27	567.5	77.0	152	5	US-10-642-116-2

28	567.5	77.0	152	5	US-10-642-100-2	Sequence 2, Appl1
29	567.5	77.0	152	5	US-10-642-058-2	Sequence 2, Appl1
30	567.5	77.0	152	5	US-10-642-121-2	Sequence 2, Appl1
31	567.5	77.0	152	5	US-10-642-065-2	Sequence 2, Appl1
32	567.5	77.0	152	5	US-10-642-071-2	Sequence 2, Appl1
33	564	76.5	138	4	US-10-389-155-72	Sequence 72, Appl1
34	564	76.5	138	4	US-10-389-417-72	Sequence 72, Appl1
35	564	76.5	138	4	US-10-452-357-85	Sequence 85, Appl1
36	562.5	76.3	133	5	US-10-810-881A-79	Sequence 79, Appl1
37	562	76.3	438	3	US-09-903-327A-6	Sequence 6, Appl1
38	562	76.3	456	3	US-09-903-327A-2	Sequence 2, Appl1
39	562	76.3	493	3	US-09-903-327A-13	Sequence 13, Appl1
40	562	76.3	510	3	US-09-903-327A-12	Sequence 12, Appl1
41	562	76.3	597	3	US-09-903-327A-11	Sequence 11, Appl1
42	562	76.3	613	3	US-09-903-327A-14	Sequence 14, Appl1
43	557	75.6	132	5	US-10-982-107-14	Sequence 14, Appl1
44	557	75.6	132	5	US-10-781-989-14	Sequence 14, Appl1
45	554.5	75.2	137	4	US-10-462-062-158	Sequence 158, Appl1

ALIGNMENTS

```

RESULT 1
US-10-768-193-7
; Sequence 7, Application US/10768193
; Publication No. US20040181042A1
; GENERAL INFORMATION:
; APPLICANT: MEDICAL & BIOLOGICAL LABORATORIES CO., LTD.
; APPLICANT: The director of Chubu National Hospital
; APPLICANT: YANAGISAWA, Katsuhiko
; APPLICANT: SHIBATA, Masao
; TITLE OF INVENTION: Antibody recognizing GM1 ganglioside-bound
; TITLE OF INVENTION: amyloid b-protein and DNA encoding the antibody
; FILE REFERENCE: P0102402
; CURRENT APPLICATION NUMBER: US/10/768, 193
; PRIOR FILING DATE: 2004-02-02
; PRIOR APPLICATION NUMBER: JP P2001-235700
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: PCT/JP02/07874
; PRIOR FILING DATE: 2002-08-01
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 136
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-768-193-7
Query Match 100.0%; Score 737; DB 4; Length 136;
Best Local Similarity 100.0%; Pred. No. 2e-58;
Matches 136; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGWIMIFFLSLGAGVHSEVOLQSGPELVKTGASVYISCKASGSPFGYMHVWKOSH 60
DB 1 MGWIMIFFLSLGAGVHSEVOLQSGPELVKTGASVYISCKASGSPFGYMHVWKOSH 60
QY 61 GKSLEWIGYISCVNGATSYNOKFKGKATFTVDTSSSTAYMOFNSLTSDSAVYYCARCAN 120
DB 61 GKSLEWIGYISCVNGATSYNOKFKGKATFTVDTSSSTAYMOFNSLTSDSAVYYCARCAN 120
QY 121 WVPDYWGQGTTLTVSS 136
DB 121 WVPDYWGQGTTLTVSS 136
RESULT 2
US-10-687-035-30
; Sequence 30, Application US/10687035
; Publication No. US20050064518A1
; GENERAL INFORMATION:
; APPLICANT: Albion, Earl F.
; APPLICANT: Soltis, Daniel A.

```

TITLE OF INVENTION: ANTIBODIES THAT BIND CELL-ASSOCIATED
FILE REFERENCE: CA 125/0772P AND METHODS OF USE THEREOF
CURRENT APPLICATION NUMBER: US/10/687,035
CURRENT FILING DATE: 2003-10-15
PRIOR APPLICATION NUMBER: 60/485,986
PRIOR FILING DATE: 2003-07-10
PRIOR APPLICATION NUMBER: 60/418,828
PRIOR FILING DATE: 2003-10-12
NUMBER OF SEQ ID NOS: 71
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 30
LENGTH: 137
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: 368.1 heavy chain polypeptide variable region (368.1H)
US-10-687-035-30

Query Match 86.9%; Score 640.5; DB 5; Length 137;
Best Local Similarity 87.6%; Pred. No. 9.1e-50;
Matches 120; Conservative 8; Mismatches 8; Indels 1; Gaps 1;

QY 1 MGVWIFLLSTAGVHSEVQLQSGPELVKGTASVKISCKASGYSTGYMHWKQSH 60
DB 1 MGVWIFLLSTAGVHSEVQLQSGPELVKGTASVKISCKASGYSTGYMHWKQSH 60
61 GKSLEWIGYISCTNGATSYNOKFKKATFTVDTSSSTAYWQNSLTSEDSAVYYCAR 119
DB 61 GKSLEWIGYISCTNGATSYNOKFKKATFTVDTSSSTAYWQNSLTSEDSAVYYCAR 120
QY 120 NWVPDYWGQGTTLTVSS 136
DB 121 YSMDFWGGGTSTVYSS 137

RESULT 3
US-10-462-062-153
Sequence 153, Application US/10462062
Publication No. US20040044187A1
GENERAL INFORMATION:
APPLICANT: SATO, KOH
APPLICANT: ADACHI, HIDEKI
TITLE OF INVENTION: HUMANIZED ANTIBODIES AGAINST HUMAN TISSUE FACTOR (TF)
FILE REFERENCE: 053466-0360
CURRENT APPLICATION NUMBER: US/10/462,062
CURRENT FILING DATE: 2003-06-16
PRIOR APPLICATION NUMBER: PCT/JP99/01768
PRIOR FILING DATE: 1999-04-02
PRIOR APPLICATION NUMBER: JP 10-91850
PRIOR FILING DATE: 1998-04-03
NUMBER OF SEQ ID NOS: 183
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 153
LENGTH: 137
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Full-length amino acid
OTHER INFORMATION: sequence for H chain V region of anti-Tf mouse monoclonal
OTHER INFORMATION: antibody ATR-2
US-10-462-062-153

Query Match 81.6%; Score 601.5; DB 4; Length 137;
Best Local Similarity 83.2%; Pred. No. 2.9e-46;
Matches 114; Conservative 5; Mismatches 17; Indels 1; Gaps 1;

QY 1 MGVWIFLLSTAGVHSEVQLQSGPELVKGTASVKISCKASGYSTGYMHWKQSH 60
DB 1 MGVWIFLLSTAGVHSEVQLQSGPELVKGTASVKISCKASGYSTGYMHWKQSH 60
61 GKSLEWIGYISCTNGATSYNOKFKKATFTVDTSSSTAYWQNSLTSEDSAVYYCAR 119

DB 61 GKSLEWIGYISCTNGATSYNOKFKKATFTVDTSSSTAYWQNSLTSEDSAVYYCAR 120
QY 120 NWVPDYWGQGTTLTVSS 136
DB 121 GYFDYWGQGTTLTVSS 137

RESULT 4
US-10-462-062-154
Sequence 154, Application US/10462062
Publication No. US20040044187A1
GENERAL INFORMATION:
APPLICANT: SATO, KOH
APPLICANT: ADACHI, HIDEKI
TITLE OF INVENTION: HUMANIZED ANTIBODIES AGAINST HUMAN TISSUE FACTOR (TF)
FILE REFERENCE: 053466-0360
CURRENT APPLICATION NUMBER: US/10/462,062
CURRENT FILING DATE: 2003-06-16
PRIOR APPLICATION NUMBER: PCT/JP99/01768
PRIOR FILING DATE: 1999-04-02
PRIOR APPLICATION NUMBER: JP 10-91850
PRIOR FILING DATE: 1998-04-03
NUMBER OF SEQ ID NOS: 183
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 154
LENGTH: 137
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Full-length amino acid
OTHER INFORMATION: sequence for H chain V region of anti-Tf mouse monoclonal
OTHER INFORMATION: antibody ATR-3
US-10-462-062-154

Query Match 81.6%; Score 601.5; DB 4; Length 137;
Best Local Similarity 83.2%; Pred. No. 2.9e-46;
Matches 114; Conservative 5; Mismatches 17; Indels 1; Gaps 1;

QY 1 MGVWIFLLSTAGVHSEVQLQSGPELVKGTASVKISCKASGYSTGYMHWKQSH 60
DB 1 MGVWIFLLSTAGVHSEVQLQSGPELVKGTASVKISCKASGYSTGYMHWKQSH 60
61 GKSLEWIGYISCTNGATSYNOKFKKATFTVDTSSSTAYWQNSLTSEDSAVYYCAR 119
DB 61 GKSLEWIGYISCTNGATSYNOKFKKATFTVDTSSSTAYWQNSLTSEDSAVYYCAR 120
QY 120 NWVPDYWGQGTTLTVSS 136
DB 121 GYFDYWGQGTTLTVSS 137

RESULT 5
US-10-389-155-60
Sequence 60, Application US/10389155
Publication No. US20030229208A1
GENERAL INFORMATION:
APPLICANT: Queen, Cary L.
Co. Man Sung
Schneider, William P.
Landoff, Nicholas F.
Coelling, Kathleen L.
Selick, Harold B.
TITLE OF INVENTION: Improved Humanized Immunoglobulins
NUMBER OF SEQUENCES: 100
CORRESPONDENCE ADDRESS:
ADDRESS: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: March 21, 2006, 18:05:40 ; Search time 35.4113 Seconds
(without alignments)
317.523 Million cell updates/sec

Title: US-10-768-193-7
Perfect score: 737
Sequence: 1 MGWMIFFLLISGTAGVHSE.....RGAMWVFDYMGQTTLVSS 136

Scoring table:
BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:
1: /cgn2_6/ptodata/1/1aa/5_COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/6_COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/H_COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/PCTUS_COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/RE_COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/backfill1est.pep:*

Pred. NO. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	601.5	81.6	137	2	US-09-647-468-153 Sequence 153, App
2	601.5	81.6	137	2	US-09-647-468-154 Sequence 154, App
3	593.5	80.5	135	1	US-07-634-278-69 Sequence 69, App
4	593.5	80.5	135	1	US-08-477-728-69 Sequence 69, App
5	593.5	80.5	135	1	US-08-474-040-69 Sequence 69, App
6	593.5	80.5	135	1	US-08-487-200-69 Sequence 69, App
7	593.5	80.5	135	1	US-08-137-117D-27 Sequence 27, App
8	593.5	80.5	135	1	US-08-436-717-27 Sequence 27, App
9	593.5	80.5	135	2	US-08-484-537-69 Sequence 69, App
10	564	76.5	138	1	US-07-634-278-85 Sequence 85, App
11	564	76.5	138	1	US-08-474-040-85 Sequence 85, App
12	564	76.5	138	1	US-08-487-200-85 Sequence 85, App
13	564	76.5	138	2	US-08-484-537-85 Sequence 85, App
14	564	76.5	138	2	US-08-434-000A-14 Sequence 14, App
15	557	75.6	132	2	US-09-312-157-14 Sequence 14, App
16	557	75.6	132	2	US-09-717-888-14 Sequence 14, App
17	557	75.6	132	2	US-08-379-057-18 Sequence 18, App
18	555.5	75.2	137	2	US-09-647-468-158 Sequence 158, App
19	554.5	75.2	142	1	US-08-678-194-8 Sequence 8, App
20	554	75.2	142	2	US-08-890-011-8 Sequence 8, App
21	554	75.2	142	2	US-09-262-724-8 Sequence 8, App
22	554	75.2	142	2	US-08-116-778E-1 Sequence 1, App
23	551.5	74.8	139	1	US-08-438-562-1 Sequence 1, App
24	551.5	74.8	139	1	US-08-483-528B-91 Sequence 91, App
25	550.5	74.7	137	1	US-08-116-778E-3 Sequence 3, App
26	550.5	74.7	137	1	US-08-438-562-3 Sequence 3, App
27	550.5	74.7	137	1	US-08-438-562-3 Sequence 3, App

28	550.5	74.7	137	1	US-08-483-528B-93 Sequence 93, App
29	549.5	74.6	124	2	US-09-257-069-2 Sequence 2, App
30	549.5	74.6	124	2	US-10-007-790-2 Sequence 2, App
31	545.5	74.0	137	2	US-09-647-468-157 Sequence 157, App
32	544	73.8	136	2	US-08-525-539A-47 Sequence 47, App
33	544	73.8	140	4	PCT-US93-11612-4 Sequence 4, App
34	542	73.5	140	4	US-08-579-378A-4 Sequence 4, App
35	541.5	73.5	233	2	US-08-444-644-33 Sequence 33, App
36	541.5	73.5	233	2	US-08-232-246A-19 Sequence 19, App
37	541.5	73.5	235	2	US-08-444-644-19 Sequence 19, App
38	541.5	73.5	235	2	US-08-444-644-28 Sequence 28, App
39	541.5	73.5	235	2	US-08-444-644-42 Sequence 42, App
40	541.5	73.5	235	2	US-08-232-246A-19 Sequence 19, App
41	541.5	73.5	235	2	US-08-232-246A-28 Sequence 28, App
42	541.5	73.5	235	2	US-08-232-246A-42 Sequence 42, App
43	534.5	72.5	137	2	US-08-444-644-17 Sequence 17, App
44	534.5	72.5	137	2	US-08-232-246A-17 Sequence 17, App
45	526	71.4	140	2	US-08-836-561-27 Sequence 27, App

ALIGNMENTS

```
RESULT 1
US-09-647-468-153
Sequence 153, Application US/09647468
Patent No. 6677436
GENERAL INFORMATION:
APPLICANT: SATO, KOH
APPLICANT: ADACHI, HIDEKI
APPLICANT: YABUTA, NAOMIRO
TITLE OF INVENTION: HUMANIZED ANTIBODY AGAINST HUMAN TISSUE FACTOR (TF) AND
TITLE OF INVENTION: PROCESS OF PRODUCTION OF THE HUMANIZED ANTIBODY
FILE REFERENCE: 053466/0289
CURRENT FILING DATE: 2000-09-29
PRIOR APPLICATION NUMBER: PCT/JP99/01768
PRIOR FILING DATE: 1999-04-02
PRIOR APPLICATION NUMBER: JP 10-91850
PRIOR FILING DATE: 1998-04-03
NUMBER OF SEQ ID NOS: 183
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO 153
LENGTH: 137
TYPE: PRT
ORGANISM: Mus sp.
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Amino acid
OTHER INFORMATION: sequence coding for H chain V region of ant-TF
OTHER INFORMATION: mouse monoclonal antibody ATR-2
US-09-647-468-153
Query Match
Best Local Similarity 81.6%; Score 601.5; DB 2; Length 137;
Matches 114; Conservative 5; Mismatches 17; Indels 1; Gaps 1;
QY 1 MGWMIFFLLISGTAGVHSEVQLOSGPELVKTGASVYISCKASGYSTGYTHMVKOSH 60
DB 1 MEMSMIFFLISGTAGVHSEIQLOSGPELVKPGASVYISCKASGYSTGYTHMVKOSH 60
QY 61 GKSLWMTGTCVNGATSYNKGKATFTVDSSTAYMGFNSLSDSAVYCARGA 119
DB 61 GKSLWMTGTCVNGATSYNKGKATFTVDSSTAYMGFNSLSDSAVYCARGA 120
QY 120 TAVPDMGQTTLVSS 136
DB 121 GYFDMGQTTLVSS 137
RESULT 2
US-09-647-468-154
Sequence 154, Application US/09647468
Patent No. 6677436
```

GENERAL INFORMATION:
APPLICANT: SATO, KOH
APPLICANT: ADACHI, HIDEKI
APPLICANT: YABUTA, NAOHICO
TITLE OF INVENTION: HUMANIZED ANTIBODY AGAINST HUMAN TISSUE FACTOR (TF) AND
TITLE OF INVENTION: PROCESS OF PRODUCTION OF THE HUMANIZED ANTIBODY
FILE REFERENCE: 053466/0289
CURRENT APPLICATION NUMBER: US/09/647,468
CURRENT FILING DATE: 2000-09-29
PRIOR APPLICATION NUMBER: PCT/JP99/01768
PRIOR FILING DATE: 1999-04-02
PRIOR APPLICATION NUMBER: JP 10-91850
PRIOR FILING DATE: 1998-04-03
NUMBER OF SEQ ID NOS: 183
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 154
LENGTH: 137
TYPE: PRT
ORGANISM: Mus sp.
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Amino acid
OTHER INFORMATION: sequence coding for H chain V region of ant-TF
OTHER INFORMATION: mouse monoclonal antibody ATR-3
US-09-647-468-154

Query Match 81.6%; Score 601.5; DB 2; Length 137;
Best Local Similarity 83.2%; Pred. No. 5.5e-48;
Matches 114; Conservative 5; Mismatches 17; Indels 1; Gaps 1;

QY 1 MGMIWIFLLISGTAGHSEVLOOQSGPELVKTGASVKISCKASGYSTGYMMHWKQSH 60
1 MEMSWIFLLISGTAGHSEVLOOQSGPELVKPGASVKSCASGYSTGYMMHWKQSH 60
DB 1 MEMSWIFLLISGTAGHSEVLOOQSGPELVKPGASVKSCASGYSTGYMMHWKQSH 60
QY 61 GKSLIEWIGYISCVNGATSYNOKFKGKATFTVDTSSSTAYMFPNSLTSEDSAVYYCARGA- 119
61 GKSLIEWIGYIDPYNNGTITNOKFKGKATITVKKSSSTAYMHLNSLTSEDSAVYYCARGE 120
DB 61 GKSLIEWIGYIDPYNNGTITNOKFKGKATITVKKSSSTAYMHLNSLTSEDSAVYYCARGE 120
QY 120 NWFDYWGQGITLVSS 136
121 GYFDYWGQGITLVSS 137
DB 121 GYFDYWGQGITLVSS 137

RESULT 3
US-07-634-278-69
Sequence 69, Application US/07634278
Patent No. 5530101
GENERAL INFORMATION:
APPLICANT: QUEEN, Gary L.
APPLICANT: CO, Man Sung
APPLICANT: SCHNEIDER, William P.
APPLICANT: LANDOLFI, Nicholas F.
APPLICANT: COELINGH, Kathleen L.
APPLICANT: SELICK, Harold E.
TITLE OF INVENTION: IMPROVED HUMANIZED IMMUNOGLOBULINS
NUMBER OF SEQUENCES: 113
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Kourie and Crew
STREET: 379 Lytton Avenue
CITY: Palo Alto
STATE: California
COUNTRY: US
ZIP: 94301
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/634,278
FILING DATE: 19-DEC-1990
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/590,274

FILING DATE: 28-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/310,252
FILING DATE: 13-FEB-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/290,975
FILING DATE: 28-DEC-1988
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 11823-002600
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 326-2400
TELEFAX: (415) 326-2422
INFORMATION FOR SEQ ID NO: 69:
SEQUENCE CHARACTERISTICS:
LENGTH: 135 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-634-278-69

Query Match 80.5%; Score 593.5; DB 1; Length 135;
Best Local Similarity 83.8%; Pred. No. 2.9e-47;
Matches 114; Conservative 3; Mismatches 18; Indels 1; Gaps 1;

QY 1 MGMIWIFLLISGTAGHSEVLOOQSGPELVKTGASVKISCKASGYSTGYMMHWKQSH 60
1 MEMSWIFLLISGTAGHSEVLOOQSGPELVKPGASVKISCKASGYSTGYMMHWKQSH 60
DB 1 MGMIWIFLLISGTAGHSEVLOOQSGPELVKPGASVKISCKASGYSTGYMMHWKQSH 60
QY 61 GKSLIEWIGYISCVNGATSYNOKFKGKATFTVDTSSSTAYMFPNSLTSEDSAVYYCARGAN 120
61 GKSLIEWIGYIDPYNNGTITNOKFKGKATITVKNSSSTAYMVRSLTSEDSAVYYCARGP 120
DB 61 GKSLIEWIGYIDPYNNGTITNOKFKGKATITVKNSSSTAYMVRSLTSEDSAVYYCARGP 120
QY 121 WFDYWGQGITLVSS 136
121 ANDYWGQGITSVTVSS 135
DB 121 ANDYWGQGITSVTVSS 135

RESULT 4
US-08-477-728-69
Sequence 69, Application US/08477728
Patent No. 5585089
GENERAL INFORMATION:
APPLICANT: QUEEN, Gary L.
APPLICANT: SCHNEIDER, William P.
APPLICANT: SELICK, Harold E.
TITLE OF INVENTION: IMPROVED HUMANIZED IMMUNOGLOBULINS
NUMBER OF SEQUENCES: 113
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, 8th floor
CITY: Palo Alto
STATE: California
COUNTRY: US
ZIP: 94111
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,728
FILING DATE: 07-JUN-1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/634,278
FILING DATE: 19-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/590,274
FILING DATE: 28-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/310,252

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: March 21, 2006, 17:50:10 ; Search time 286.234 Seconds
(without alignments)
196.019 Million cell updates/sec

Title: US-10-768-193-8

Perfect score: 668
Sequence: 1 MAMWSLILSLALCSGASQ.....ALMSTHYVFGGKTVTLG 129

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

A_Geneseq_21:.*
1: Geneseqp1980s:.*
2: Geneseqp1990s:.*
3: Geneseqp2000s:.*
4: Geneseqp2001s:.*
5: Geneseqp2002s:.*
6: Geneseqp2003as:.*
7: Geneseqp2003bs:.*
8: Geneseqp2004s:.*
9: Geneseqp2005s:.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	668	100.0	129	6	ABU08928 Mouse amy
2	601	90.0	131	2	AAR09422 Br-3 Ligh
3	601	90.0	131	2	AAW06211 MAB Br-3
4	601	90.0	131	2	AAW85058 Mouse Br-
5	601	90.0	131	6	ABU58892 Mouse ant
6	599	89.7	128	2	AAR35949
7	567	84.9	240	1	AAP80157 Biosynthe
8	557	83.4	261	3	AA444990 Murine an
9	552	82.6	115	2	AAAR05510 IGA type
10	545	81.6	269	2	AAR54756 PRAS11 b
11	545	81.6	415	2	AAR56484 ScfV pRAS
12	542	81.1	269	2	AAR56482 ScfV pRAS
13	535	80.1	112	2	AAR88720 Mouse ant
14	535	80.1	112	8	ADU39947 Antibody
15	535	80.1	114	7	ADM07541 Murine im
16	535	80.1	243	8	ADT07627 Polypepti
17	534	79.9	435	2	AAR56483 ScfV pRAS
18	532	79.6	256	2	AAR22568 SCFVBI8 C
19	532	79.6	256	2	AAR22582 SCFVBI8 C
20	532	79.6	428	2	AAW24027 Single ch
21	532	79.6	443	2	AAW24025 Single ch
22	531	79.5	110	8	ADU39960 Antibody
23	531	79.5	402	2	AAR56485 ScfV pRAS
24	530	79.3	239	8	ADT07625 Polypepti

25	530	79.3	239	9	ADM13546 Anti-anti
26	528	79.0	256	2	AAR22584 SCFVBI8 C
27	527	78.9	230	7	ADM07543 Murine im
28	526	78.7	112	2	AAV03868 SM3 light
29	526	78.7	256	2	AAR22587 SCFVBI8 C
30	526	78.7	256	2	AAR22585 SCFVBI8 C
31	525	78.6	110	8	ADT07573 Polypepti
32	525	78.6	244	8	ADT07628 Polypepti
33	525	78.6	256	2	AAR22586 SCFVBI8 C
34	523	78.3	229	7	ADM07542 Murine im
35	523	78.3	229	7	ADM07544 Murine im
36	522	78.1	109	9	ADM13535 Anti-anti
37	522	78.1	110	2	AAR05038 Metal che
38	522	78.1	110	2	AAR54136 CHA255 1i
39	522	78.1	256	2	AAR22583 SCFVBI8 C
40	521	78.0	272	7	ADE29203 Multivale
41	521	78.0	273	4	AAB70763 Single ch
42	520	77.8	110	8	AAR04938 Chelate-s
43	520	77.8	110	8	ADT07571 Polypepti
44	520	77.8	240	8	ADT07626 Polypepti
45	519	77.7	110	8	ADR73591 Anti-AR a

ALIGNMENTS

RESULT 1	ABU08928	standard; protein; 129 AA.
ID	ABU08928	
XX	AC	ABU08928; (first entry)
XX	AC	
DT	03-JUN-2003	
DE	Mouse amyloid beta antibody light chain variable region.	
XX	Mouse; antibody; beta-amyloid fibril inhibitor; Alzheimer's disease;	
KW	GM1 ganglioside-bound amyloid beta protein; amyloid beta protein;	
KM	amyloid fibril formation inhibition; light chain; variable region.	
XX		
OS	Mus musculus.	
XX		
FH	Key	Location/Qualifiers
FT	Peptide	1..19
FT	Protein	/label= Signal_sequence
FT		20..129
FT		/note= "Mature GM1 ganglioside-bound amyloid beta antibody light chain variable region."
FT	Region	42..55
FT		/label= CDR1
FT		/note= "Complementarity determining region 1. Specifically claimed in claim 2"
FT	Region	71..77
FT		/label= CDR2
FT		/note= "Complementarity determining region 2. Specifically claimed in claim 2"
FT	Region	110..118
FT		/label= CDR3
FT		/note= "Complementarity determining region 3. Specifically claimed in claim 2"
XX		
PN	WO2003014162-A1.	
XX		
PD	20-FEB-2003.	
XX		
PF	01-AUG-2002; 2002WO-JP007874.	
XX		
PR	03-AUG-2001; 2001JP-00235700.	
XX		
PA	(MEDI-) MEDICAL & BIOLOGICAL LAB CO LTD.	
XX	(NICH-) JAPAN CHUBU NAT HOSPITAL.	
XX	(YANA/) YANAGISAWA K.	

PI Yanagisawa K, Shibata M;
 XX WPI; 2003-268182/26.
 DR N-PSDB; ABX93689.
 XX
 XX Antibodies recognizing GM1 ganglioside-bound amyloid beta-protein and
 PT encoded DNA, useful in diagnosing, preventing or treating Alzheimer's
 XX disease by inhibiting early-stage beta-amyloid fibril formation.
 XX
 PS Claim 5; Fig 2; 60pp; Japanese.
 CC The invention relates to four antibodies recognising GM1 ganglioside-
 CC bound amyloid beta protein and having inhibitory activity on the
 CC formation of amyloid fibril. The antibodies are useful in diagnosing,
 CC preventing or treating Alzheimer's disease by inhibiting early-stage beta
 CC -amyloid fibril formation. The antibody does not recognise soluble
 CC amyloid beta-protein, and thus drugs produced from the antibodies are
 CC efficacious in treating Alzheimer's disease. The present sequence
 CC represents the amino acid sequence of mouse GM1 ganglioside-bound amyloid
 CC beta antibody light chain variable region
 CC
 XX Sequence 129 AA;
 SQ
 Query Match 100.0%; Score 668; DB 6; Length 129;
 Best Local Similarity 100.0%; Pred. No. 3.4e-51;
 Matches 129; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 MAMTSLILSLALCSGASQAVVTQESALTSPGTVILTCRSSGTGAVTTSNYAMWQEK 60
 DB 1 MAMTSLILSLALCSGASQAVVTQESALTSPGTVILTCRSSGTGAVTTSNYAMWQEK 60
 OY 61 PDHLFTGLIGTSNRAPGVPRFSGSLIGDKAALTTGAQTEDDMYFCALWYTHYVFG 120
 DB 61 PDHLFTGLIGTSNRAPGVPRFSGSLIGDKAALTTGAQTEDDMYFCALWYTHYVFG 120
 OY 121 GGTXYTVLG 129
 DB 121 GGTXYTVLG 129
 RESULT 2
 AAR09422
 ID AAR09422 standard; protein; 131 AA.
 XX
 AC AAR09422;
 XX
 DT 25-MAR-2003 (revised)
 DT 04-MAR-1993 (first entry)
 XX
 DE Br-3 Light Chain V Region (mouse).
 XX
 KW Monoclonal antibody; chimera; light; heavy; chain; constant; variable;
 KW antigen; diagnosis; cancer; tumour.
 XX
 OS Mus musculus.
 XX
 PN WO9002569-A.
 XX
 PD 22-MAR-1990.
 XX
 PF 08-SEP-1988; 88US-00241744.
 XX
 PR 08-SEP-1988; 88US-00241744.
 PR 13-SEP-1988; 88US-00243739.
 PR 04-OCT-1988; 88US-00253002.
 PR 19-JUN-1989; 89US-00367641.
 PR 21-JUL-1989; 89US-00382768.
 XX
 PA (ITGE-) INT GENETIC ENG INC.
 PA (INGE-) INGENE INT GENETIC.
 XX
 PI Better MD, Horwitz AH, Robinson RR, Lei S, Chang CP;
 XX

DR WPI; 1990-115825/15.
 DR N-PSDB; AAO08604.
 XX
 XX Chimeric mouse-human antibodies - prep'd. using genes coding for constant
 PT human region murine variable region, esp. to 3 tumour antigen.
 XX
 PS Claim 13; Page 123 + Fig 14; 173pp; English.
 CC The sequence is used in the prodn. of a chimeric antibody mol. comprising
 CC two light chains and two heavy chains, each having a constant region
 CC (human) and a variable region (murine) having specificity to an antigen
 CC bound by murine monoclonal antibody (MAb) Br-3. The chimeric antibodies
 CC can be used for any purpose for which the original murine MAbs can be
 CC used, with the advantage that they are more compatible with the human
 CC body. They are esp. used for the diagnosis and treatment of cancer.
 CC (Updated on 25-MAR-2003 to correct PA field.)
 CC
 XX Sequence 131 AA;
 SQ
 Query Match 90.0%; Score 601; DB 2; Length 131;
 Best Local Similarity 89.9%; Pred. No. 2.9e-45;
 Matches 116; Conservative 5; Mismatches 8; Indels 0; Gaps 0;
 OY 1 MAMTSLILSLALCSGASQAVVTQESALTSPGTVILTCRSSGTGAVTTSNYAMWQEK 60
 DB 1 MAMTSLILSLALCSGASQAVVTQESALTSPGTVILTCRSSGTGAVTTSNYAMWQEK 60
 OY 61 PDHLFTGLIGTSNRAPGVPRFSGSLIGDKAALTTGAQTEDDMYFCALWYTHYVFG 120
 DB 61 PDHLFTGLIGTSNRAPGVPRFSGSLIGDKAALTTGAQTEDDMYFCALWYTHYVFG 120
 OY 121 GGTXYTVLG 129
 DB 121 GGTXYTVLG 129
 RESULT 3
 AAM06211
 ID AAM06211 standard; protein; 131 AA.
 XX
 AC AAM06211;
 XX
 DT 25-MAR-2003 (revised)
 DT 12-FEB-1997 (first entry)
 XX
 DE MAb Br-3 light chain variable region.
 XX
 KW Chimeric antibody; monoclonal antibody; Br-3; antibody engineering;
 KW tumour; antigen; breast carcinoma; lung carcinoma; colon carcinoma;
 KW ovary carcinoma; cancer; diagnosis; therapy; light chain.
 XX
 OS Mus sp.
 XX
 PN US5576184-A.
 XX
 PD 19-NOV-1996.
 XX
 PF 27-DEC-1994; 94US-00364001.
 XX
 PR 06-SEP-1988; 88US-00240624.
 PR 08-SEP-1988; 88US-00241744.
 PR 13-SEP-1988; 88US-00243739.
 PR 04-OCT-1988; 88US-00253002.
 PR 19-JUN-1989; 89US-00367641.
 PR 21-JUL-1989; 89US-00382768.
 PR 06-MAY-1991; 91US-00659401.
 XX
 PA (XOMA) XOMA CORP.
 XX
 PI Chang CP, Lei S, Better MD, Robinson RR, Horwitz AH;
 XX
 DR WPI; 1997-011249/01.
 DR N-PSDB; AAT43436.

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM protein - protein search, using sw model

Run on: March 21, 2006, 18:00:46 ; Search time 23.8528 Seconds
(without alignments)
520.356 Million cell updates/sec

Title: US-10-768-193-8

Perfect score: 668
Sequence: 1 MAWSTSLSLALCSGASQ.....ALWSTHYFGGCTKVTILG 129

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

1: p1r1: *
2: p1r2: *
3: p1r3: *
4: p1r4: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	649	97.2	129	1	Ig lambda-2 chain
2	603	90.3	117	1	Ig lambda-2 chain
3	599	89.7	128	2	Ig lambda-2 chain
4	597	89.4	129	1	Ig lambda-1 chain
5	545	81.6	116	1	Ig lambda-1 chain
6	529	79.2	287	4	pe1B leader/Ig hea
7	525	78.6	100	2	Ig lambda chain V
8	518	77.5	113	2	Ig lambda chain V
9	514	76.9	214	2	Ig lambda chain V
10	511.5	76.6	112	2	Ig lambda chain V
11	506.5	75.8	114	2	Ig lambda chain V
12	506	75.7	106	2	Ig lambda chain V
13	497.5	74.5	114	2	Ig lambda chain V
14	492	73.7	113	2	Ig lambda chain V
15	492	73.7	113	2	Ig lambda chain V
16	492	73.7	113	2	Ig lambda chain V
17	485	72.6	92	2	Ig lambda-2 chain
18	482	72.2	116	2	Ig lambda chain pr
19	477	71.4	99	2	Ig lambda chain V
20	475	71.1	97	2	Ig lambda chain V
21	475	71.1	100	2	Ig lambda chain V
22	470	70.4	99	2	Ig lambda chain V
23	469.5	70.3	99	2	Ig lambda chain V
24	454	68.0	99	2	Ig lambda chain V
25	454	68.0	99	2	Ig lambda chain V
26	351.5	52.6	136	2	ARKV1lambda protein
27	348	52.1	117	2	Ig lambda chain pr
28	339.5	50.8	117	1	Ig lambda chain pr
29	336.5	50.4	235	2	Ig lambda chain -

30	302.5	45.3	120	2	Ig lambda chain V
31	289.5	43.3	127	2	Ig lambda chain pr
32	289	43.3	98	2	Ig lambda chain V
33	289	43.3	112	2	Ig lambda chain V
34	287.5	43.0	110	2	Ig lambda chain V
35	283.5	42.4	233	2	Ig lambda chain -
36	282.5	42.3	231	2	Ig lambda chain -
37	273.5	40.9	151	2	Ig lambda chain -
38	267.5	40.0	231	2	Ig lambda chain -
39	265.5	39.9	233	2	Ig lambda chain -
40	265.5	39.7	233	2	Ig lambda chain -
41	264.5	39.6	128	2	Ig lambda chain pr
42	264	39.5	98	2	Ig lambda chain -
43	262	39.2	235	2	Ig lambda chain -
44	260.5	39.0	132	2	Ig lambda chain V
45	260.5	39.0	233	2	Ig lambda chain -

ALIGNMENTS

RESULT 1
L2MS35
Ig lambda-2 chain precursor V region (MOPC 315) - mouse
C:Species: Mus musculus (house mouse)
C:Date: 31-Mar-1980 #sequence revision 01-Dec-1995 #text change 09-Jul-2004
C:Accession: A93431; B93282; E91462; A90372; A90410; S09391; A01997
R:Wu, G.E.; Govindji, N.; Hozumi, N.; Murialdo, H.
Nucleic Acids Res. 10, 3831-3843, 1982
A:Title: Nucleotide sequence of a chromosomal rearranged lambda-2 immunoglobulin gene of A:Reference number: A93431; MUID:82274221; PMID:6287422
A:Accession: A93431
A:Molecule type: mRNA
A:Residues: 1-129 <WDG>
A:Cross-references: UNIPROT:P01729; UNIPARC:UP100000270BD
R:Bohwell, A.L.M.; Paskind, M.; Rech, M.; Imanishi-Kari, T.; Rajewsky, K.; Baltimore, D. Nature 298, 380-382, 1982
A:Title: Somatic variants of murine immunoglobulin lambda light chains.
A:Reference number: A93282; MUID:82220143; PMID:6283385
A:Accession: B93282
A:Molecule type: DNA
A:Residues: 1-129 <BOT>
A:Cross-references: UNIPARC:UP100000270BD
A>Note: the sequence was determined from the differentiated gene
R:Schlechter, I.; Wolf, O.; Zemell, R.; Bursstein, Y. Fed. Proc. 38, 1839-1845, 1979
A:Title: Structure and function of immunoglobulin genes and precursors.
A:Reference number: A91462; MUID:79148758; PMID:428562
A:Accession: B91462
A:Molecule type: protein
A:Residues: 1-22 <SCH>
A:Cross-references: UNIPARC:UP10000173724
R:Dugan, E.S.; Bradshaw, R.A.; Simms, E.S.; Eisen, H.N. Biochemistry 12, 5400-5416, 1973
A:Title: Amino acid sequence of the light chain of a mouse myeloma protein (MOPC-315).
A:Reference number: A90372; MUID:74046693; PMID:4760498
A:Accession: A90372
A:Molecule type: protein
A:Residues: 20-24, 'E', '26-73', 'D', '75-129 <DUG>
A:Cross-references: UNIPARC:UP10000173725
R:Gavish, M.; Zakut, R.; Wilchek, M.; Givol, D. Biochemistry 17, 1345-1351, 1978
A:Title: Preparation of a semisynthetic antibody.
A:Reference number: A90410; MUID:78187254; PMID:418802
A:Accession: A90410
A:Molecule type: protein
A:Residues: 1-129 <GAV>
A:Cross-references: UNIPARC:UP100000270BD
R:Bogen, B.; Lambdis, J.D. EMBO J. 8, 1947-1952, 1989
A:Title: Minimum length of an idiotype peptide and a model for its binding to a major h A:Reference number: S09391; MUID:90065397; PMID:2792076
A:Accession: S09391

A/Molecule type: protein
 A/Residues: 110-126 <BOG>
 A/Cross-references: UNIPARC:UPI0000173726
 C/Comment: This chain is from a myeloma protein with anti-DNP activity.
 C/Complex: An immunoglobulin heterotetramer subunit consists of two identical light (kappa) chain disulfide bonds. In some cases, such as Iga and Igm, the subunits associate into 1a C/Superfamily: immunoglobulin V region; immunoglobulin homology
 C/Keywords: heterotetramer; pyroglutamic acid
 F.1-19/Domain: signal sequence #status experimental <Sig>
 F.120-129/Domain: Ig lambda-2 chain precursor V region #status experimental <Mat>
 F.134-111/Domain: immunoglobulin homology <IMM>
 F.110-126/Region: idio type to histocompatibility complex class II #status experimental
 F.20/Modified site: pyroglutamic acid (Gln) (in mature form) #status experimental
 F.41-109/Disulfide bonds: #status predicted

Query Match 97.2%; Score 649; DB 1; Length 129;
 Best Local Similarity 96.1%; Pred. No. 1.2e-48;
 Matches 124; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 MAMTSLIISLALCGASSQAVVTQESALTTPGCTVILTCRSSGTGAVTTSNYANWQEK 60
 DB 1 MAMTSLIISLALCGASSQAVVTQESALTTPGCTVILTCRSSGTGAVTTSNYANWQEK 60
 QY 61 PDHLFTGLIGTSNRAPGVPRFSGSLIGDKAALTITGAQTEDDAMFYCALWYSTHYVFG 120
 DB 61 PDHLFTGLIGTSNRAPGVPRFSGSLIGDKAALTITGAQTEDDAMFYCALWFRHFVFG 120
 QY 121 GGTAKTVLIG 129
 DB 121 GGTAKTVLIG 129

RESULT 2
 L2MSWE
 Ig lambda-2 chain precursor V region - mouse
 C/Species: Mus musculus (house mouse)
 C/Date: 30-Nov-1980 #sequence_revision 30-Nov-1980 #text_change 09-Jul-2004
 C/Accession: A01996
 R/Tonegawa, S.; Maxam, A.M.; Tizard, R.; Bernard, O.; Gilbert, W.
 Proc. Natl. Acad. Sci. U.S.A. 75, 1485-1489, 1978
 A/Title: Sequence of a mouse germ-line gene for a variable region of an immunoglobulin 1
 A/Reference number: A01996; MUID:78179064; PMID:418414
 A/Accession: A01996
 A/Molecule type: DNA
 A/Residues: 1-117 <TON>
 A/Cross-references: UNIPROT:P01728; UNIPARC:UPI0000021FB0; GB:V00815; NID:952278; PIDN:C
 A/Note: the sequence was determined from the germ-line gene
 C/Genetics:
 A/Introns: 16/1
 C/Complex: An immunoglobulin heterotetramer subunit consists of two identical light (kappa) chain disulfide bonds. In some cases, such as Iga and Igm, the subunits associate into 1a C/Superfamily: immunoglobulin V region; immunoglobulin homology
 C/Keywords: heterotetramer; immunoglobulin; pyroglutamic acid
 F.1-19/Domain: signal sequence #status predicted <Sig>
 F.120-117/Domain: Ig lambda-2 chain V region #status predicted <Mat>
 F.134-111/Domain: immunoglobulin homology <IMM>
 F.20/Modified site: pyroglutamic acid (Gln) (in mature form) #status predicted
 F.41-109/Disulfide bonds: #status predicted

Query Match 90.3%; Score 603; DB 1; Length 117;
 Best Local Similarity 99.1%; Pred. No. 9e-45;
 Matches 116; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAMTSLIISLALCGASSQAVVTQESALTTPGCTVILTCRSSGTGAVTTSNYANWQEK 60
 DB 1 MAMTSLIISLALCGASSQAVVTQESALTTPGCTVILTCRSSGTGAVTTSNYANWQEK 60
 QY 61 PDHLFTGLIGTSNRAPGVPRFSGSLIGDKAALTITGAQTEDDAMFYCALWYSTHY 117
 DB 61 PDHLFTGLIGTSNRAPGVPRFSGSLIGDKAALTITGAQTEDDAMFYCALWYSTHY 117

RESULT 3

S52450
 Ig lambda chain V region - mouse
 C/Species: Mus musculus (house mouse)
 C/Date: 08-May-1995 #sequence_revision 21-Jul-1995 #text_change 21-Jan-2000
 C/Accession: S52450
 R/Berdoz, U.; Kraehenbuhl, J.P.
 Submitted to the EMBL Data Library, November 1994
 A/Description: Specific amplification by the polymerase chain reaction of rearranged gene
 A/Reference number: S52445
 A/Accession: S52450
 A/Status: preliminary
 A/Molecule type: DNA
 A/Residues: 1-128 <BER>
 A/Cross-references: UNIPARC:UPI000011EBF; EMBL:X82687; NID:9673448; PIDN:CA58008.1; PII
 C/Genetics:
 A/Introns: 16/1
 C/Superfamily: immunoglobulin V region; immunoglobulin homology
 C/Keywords: heterotetramer; immunoglobulin
 F.134-111/Domain: immunoglobulin homology <IMM>

Query Match 89.7%; Score 599; DB 2; Length 128;
 Best Local Similarity 90.6%; Pred. No. 2.2e-44;
 Matches 116; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

QY 1 MAMTSLIISLALCGASSQAVVTQESALTTPGCTVILTCRSSGTGAVTTSNYANWQEK 60
 DB 1 MAMTSLIISLALCGASSQAVVTQESALTTPGCTVILTCRSSGTGAVTTSNYANWQEK 60
 QY 61 PDHLFTGLIGTSNRAPGVPRFSGSLIGDKAALTITGAQTEDDAMFYCALWYSTHYVFG 120
 DB 61 PDHLFTGLIGTSNRAPGVPRFSGSLIGDKAALTITGAQTEDDAMFYCALWSTHYVFG 120
 QY 121 GGTAKTVL 128
 DB 121 GGTAKTVL 128

RESULT 4
 L2MS4E
 Ig lambda-1 chain precursor V regions (MOPC 104E, RPC20, J558, S104, S178, H2020, S43) -
 C/Species: Mus musculus (house mouse)
 C/Date: 24-Sep-1981 #sequence_revision 24-Sep-1981 #text_change 09-Jul-2004
 C/Accession: B93815; B93775; C93775; A93784; B93784; C93784; A90780; C93282; A01995
 R/Burstein, Y.; Schechter, I.
 Proc. Natl. Acad. Sci. U.S.A. 74, 716-720, 1977
 A/Title: Amino acid sequence of the NH-2-terminal extra piece segments of the precursors
 A/Reference number: A93815; MUID:77148916; PMID:403522
 A/Contents: MOPC 104E
 A/Accession: B93815
 A/Molecule type: protein
 A/Residues: 1-29 <BUR>
 A/Cross-references: UNIPROT:P01724; UNIPARC:UPI0000173721
 A/Note: this precursor was synthesized in a cell-free system directed by messenger RNA i
 d after synthesis
 R/Appella, E.
 Proc. Natl. Acad. Sci. U.S.A. 69, 590-594, 1971
 A/Title: Amino acid sequences of two mouse immunoglobulin lambda chains.
 A/Reference number: A93775; MUID:71107854; PMID:5276767
 A/Contents: MOPC 104E; RPC 20
 A/Accession: B93775
 A/Molecule type: protein
 A/Residues: 1-25, 27-129 <APP>
 A/Cross-references: UNIPARC:UPI0000173722
 A/Accession: C93775
 A/Molecule type: protein
 A/Residues: 20-129 <AP2>
 A/Cross-references: UNIPARC:UPI0000173722
 A/Note: compositions and partial sequences of RPC 20 show no differences from MOPC 104E
 R/Cesari, I.M.; Weigert, M.
 Proc. Natl. Acad. Sci. U.S.A. 70, 2112-2116, 1973
 A/Title: Mouse lambda-chain sequences.
 A/Reference number: A93784; MUID:73229669; PMID:4516208
 A/Contents: J558; S104; S178

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceeleration Ltd.

OM protein - protein search, using sw model

Run on: March 21, 2006, 17:50:40 ; Search time 143.604 Seconds

(without alignments)
633.780 Million cell updates/sec

Title: US-10-768-193-8

Perfect score: 668

Sequence: 1 MAWTSLLSLALCSGASQ.....ALMYSTHYVFGGKRVTLG 129

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2166443 seqs, 705528306 residues

Total number of hits satisfying chosen parameters: 2166443

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : UniProt 05.80:*

1: uniprot_sprot:*

2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	649	97.2	129	1	LV2B_MOUSE
2	605	90.6	129	1	LV1E_MOUSE
3	603	90.3	117	1	LV2A_MOUSE
4	598	89.5	129	1	LV1D_MOUSE
5	597	89.4	129	1	LV1B_MOUSE
6	593	88.8	129	2	Q8VDE2_MOUSE
7	534.5	80.0	117	1	LV1A_MOUSE
8	510	76.3	110	1	LV1C_MOUSE
9	509.5	76.3	113	2	Q8CGS1_MOUSE
10	495.5	74.2	109	2	Q8ETI3_MOUSE
11	366	54.8	234	2	Q5CZ94_HUMAN
12	339.5	50.8	117	1	LV0A_HUMAN
13	291	43.6	98	2	Q5NV60_HUMAN
14	287	43.0	98	2	Q5NV83_HUMAN
15	276.5	41.4	233	2	Q6GMW4_HUMAN
16	276	41.3	236	2	Q6GMX4_HUMAN
17	273.5	40.9	231	2	Q6GNB8_XENLA
18	270.5	40.5	248	2	Q7SYU1_XENLA
19	270	40.4	236	2	Q6GMV7_HUMAN
20	268.5	40.2	233	2	Q8TBG9_HUMAN
21	268.5	40.2	233	2	Q6GNCS_XENLA
22	268	40.1	233	2	Q6PJU3_HUMAN
23	265.5	39.7	235	2	Q6PIK1_HUMAN
24	265	39.7	235	2	Q9EBE1_HUMAN
25	265	39.7	236	2	Q6PI07_HUMAN
26	264.5	39.6	233	2	Q8NF54_HUMAN
27	264	39.5	99	2	Q5NV62_HUMAN
28	264	39.5	236	2	Q6IPD0_HUMAN
29	262	39.2	236	2	Q6P5S3_HUMAN
30	262	39.2	236	2	Q8NEJ1_HUMAN
31	260	38.9	236	2	Q6GMX3_HUMAN

32	259	38.8	131	1	LV6E_HUMAN	P06319 homo sapien
33	259	38.8	232	2	Q5FWF9_HUMAN	Q5FWF9 homo sapien
34	255	38.2	234	2	Q8N355_HUMAN	Q8N355 homo sapien
35	254.5	38.1	235	2	Q567P1_HUMAN	Q567P1 homo sapien
36	253.5	37.9	233	2	Q6GNH3_XENLA	Q6GNH3 xenopus lae
37	252.5	37.8	130	1	LV1G_HUMAN	P06316 homo sapien
38	252.5	37.8	235	2	Q6GMW6_HUMAN	Q6GMW6 homo sapien
39	251	37.6	234	2	Q6GMW3_HUMAN	Q6GMW3 homo sapien
40	249.5	37.4	235	2	Q6IN99_HUMAN	Q6IN99 homo sapien
41	248	37.1	234	2	Q6GMV8_HUMAN	Q6GMV8 homo sapien
42	246.5	36.9	233	2	Q6NS96_HUMAN	Q6NS96 homo sapien
43	246.5	36.9	235	2	Q6PJG0_HUMAN	Q6PJG0 homo sapien
44	240.5	36.0	111	1	LV6C_HUMAN	P06317 homo sapien
45	240.5	36.0	148	2	Q6PJZ8_HUMAN	Q6PJZ8 homo sapien

ALIGNMENTS

```

RESULT 1
ID LV2B_MOUSE STANDARD; PRT; 129 AA.
AC P01729;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Ig lambda-2 chain V region WOPC 315 precursor.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Muridae; Murinae; Mus.
OX NCBI_TaxId=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=82274221; PubMed=6287422;
RA Wu G.E., Govindji N., Hozumi N., Murialdo H.;
RT "Nucleotide sequence of a chromosomal rearranged lambda 2
immunoglobulin gene of mouse."
RL Nucleic Acids Res. 10:3831-3843(1982).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=82220143; PubMed=6283385;
RA Bothwell A.L.M., Pasikind M., Reth M., Imanishi-Kari T., Rajewsky K.,
RL Baltimore D.;
RT "Somatic variants of murine immunoglobulin lambda light chains."
RN [3]
RP PROTEIN SEQUENCE OF 1-22.
RX MEDLINE=79148758; PubMed=428562;
RA Schechter I., Wolf O., Zemell R., Burstein Y.;
RT "Structure and function of immunoglobulin genes and precursors."
RL Fed. Proc. 38:1839-1845(1979).
RN [4]
RP PROTEIN SEQUENCE OF 20-129.
RX MEDLINE=74048693; PubMed=4760498;
RA Dugan E.S., Bradshaw R.A., Simms E.S., Eisen H.N.;
RT "Amino acid sequence of the light chain of a mouse myeloma protein
(MOPC-315)."
RL Biochemistry 12:5400-5416(1973).
RN [5]
RP DETERMINATION OF AMIDATION STATES OF 58, 59, 62, 100, 102, AND 115.
RX MEDLINE=78187254; PubMed=418602;
RA Gavish M., Zakut R., Wilchek M., Givol D.;
RT "Preparation of a semisynthetic antibody."
RL Biochemistry 17:1345-1351(1978).
-1- MISCELLANEOUS: This chain is from a myeloma protein with anti-DNP
activity.
-1- SIMILARITY: Contains 1 Ig-like (immunoglobulin-like) domain.
-----
This Swiss-Prot entry is copyright. It is produced through a collaboration
between the Swiss Institute of Bioinformatics and the EMBL outstation -
the European Bioinformatics Institute. There are no restrictions on its
use as long as its content is in no way modified and this statement is not

```

```

CC removed.
-----
DR PIR; A93431; L2M635.
DR HSSP; P01724; 1A6V.
DR SMR; P01729; 20-129.
DR Ensembl; ENSMUSG0000064012; Mus musculus.
DR InterPro; IPR002197; HTH_Fls.
DR InterPro; IPR003586; IG_V.
DR PRINTS; PRO1590; HTHFIS.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
DR Direct protein sequencing; 1.
KW Immunoglobulin V region; Pyroliadone carboxylic acid; signal.
FT SIGNAL 1 19
FT CHAIN 20 129 Ig lambda-2 chain V region MOPC 315.
FT DOMAIN 20 125 Ig-like.
FT MOD_RES 20 20 Pyroliadone carboxylic acid.
FT NON_TER 129 129
SQ SEQUENCE 129 AA; 13418 MW; 0AA6B8125723552C CRC64;

Query Match
Best Local Similarity 97.2%; Score 649; DB 1; Length 129;
Matches 124; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

OY 1 MAMTSLILSLALCGASQAQAVTQESALTTPSGTIVILTCRSSGTGAVTTSNYANWQEK 60
DB 1 MAMTSLILSLALCGASQAQAVTQESALTTPSGTIVILTCRSSGTGAVTTSNYANWQEK 60
OY 61 PDHLFTGLIGTSNRAPGVPRFSGSLIGDKAALTITGACQEDDAMVFCALMYSTHYVFG 120
DB 61 PDHLFTGLIGTSNRAPGVPRFSGSLIGDKAALTITGACQEDDAMVFCALMYSTHYVFG 120
OY 121 GGTATVVLG 129
DB 121 GGTATVVLG 129

RESULT 2
LV1A_MOUSE
ID LV1A_MOUSE STANDARD; PRT; 129 AA.
AC P01727;
DR 21-JUL-1986 (Rel. 01, Created)
DR 21-JUL-1986 (Rel. 01, Last sequence update)
DR 10-MAY-2005 (Rel. 47, Last annotation update)
DR Ig lambda-1 chain V region S43 precursor.
OS Mus musculus (Mouse).
CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
CC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
CC Muridae; Muridae; Murinae; Mus.
CC NCBI_TaxID=10090;
CC [1]
CC NUCLEOTIDE SEQUENCE.
CC MEDLINE=82220143; PubMed=6283385;
CC Botwell A.L.M., Paekind M., Rech M., Imanishi-Kari T., Rajewsky K.,
CC Baltimore D.;
CC "Somatic variants of murine immunoglobulin lambda light chains.";
CC Nature 298:380-382(1982).
CC -1- SIMILARITY: Contains 1 Ig-like (immunoglobulin-like) domain.
CC This Swiss-Prot entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC -----
CC HSSP; P01724; 1A6V.
CC SMR; P01727; 20-129.
CC Ensembl; ENSMUSG0000064012; Mus musculus.
CC InterPro; IPR007110; IG_LIKE.
CC InterPro; IPR003596; IG_V.
CC SMART; SM00406; IGV; 1.
CC PROSITE; PS50835; IG_LIKE; 1.
KW Immunoglobulin V region; signal.
FT SIGNAL 1 19
FT CHAIN 20 117 Ig lambda-2 chain V region.
FT DOMAIN 20 >117 Ig-like.
FT NON_TER 117 117
SQ SEQUENCE 117 AA; 12222 MW; 43FDF197419B42A6 CRC64;

```

```

KW Immunoglobulin domain; Immunoglobulin V region; signal.
FT SIGNAL 1 19
FT CHAIN 20 129 Ig lambda-1 chain V region S43.
FT DOMAIN 20 125 Ig-like.
FT NON_TER 129 129
SQ SEQUENCE 129 AA; 13529 MW; 84E54E7DD5791345 CRC64;

Query Match
Best Local Similarity 90.6%; Score 605; DB 1; Length 129;
Matches 117; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

OY 1 MAMTSLILSLALCGASQAQAVTQESALTTPSGTIVILTCRSSGTGAVTTSNYANWQEK 60
DB 1 MAMTSLILSLALCGASQAQAVTQESALTTPSGTIVILTCRSSGTGAVTTSNYANWQEK 60
OY 61 PDHLFTGLIGTSNRAPGVPRFSGSLIGDKAALTITGACQEDDAMVFCALMYSTHYVFG 120
DB 61 PDHLFTGLIGTSNRAPGVPRFSGSLIGDKAALTITGACQEDDAMVFCALMYSTHYVFG 120
OY 121 GGTATVVLG 129
DB 121 GGTATVVLG 129

RESULT 3
LV2A_MOUSE
ID LV2A_MOUSE STANDARD; PRT; 117 AA.
AC P01728;
DR 21-JUL-1986 (Rel. 01, Created)
DR 21-JUL-1986 (Rel. 01, Last sequence update)
DR 10-MAY-2005 (Rel. 47, Last annotation update)
DR Ig lambda-2 chain V region precursor.
OS Mus musculus (Mouse).
CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
CC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
CC Muridae; Muridae; Murinae; Mus.
CC NCBI_TaxID=10090;
CC [1]
CC NUCLEOTIDE SEQUENCE.
CC MEDLINE=78179064; PubMed=418414;
CC Tonegawa S., Maxam A.M., Tizard R., Bernard O., Gilbert W.;
CC "Sequence of a mouse germ-line gene for a variable region of an
CC immunoglobulin light chain.";
CC Proc. Natl. Acad. Sci. U.S.A. 75:1485-1489(1978).
CC -1- SIMILARITY: Contains 1 Ig-like (immunoglobulin-like) domain.
CC This Swiss-Prot entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC -----
CC EMBL; J00599; AAA39167.1; -; Genomic DNA.
CC EMBL; V00815; CAA24196.2; -; Genomic DNA.
CC EMBL; X58412; CAA41313.1; -; Genomic DNA.
CC EMBL; X58418; CAA41318.1; -; Genomic DNA.
CC EMBL; X58423; CAA41323.1; -; Genomic DNA.
CC EMBL; X58424; CAA41324.1; -; Genomic DNA.
CC PIR; A01996; L2MSME.
CC HSSP; P01724; 1A6V.
CC SMR; P01728; 20-117.
CC Ensembl; ENSMUSG0000064012; Mus musculus.
CC InterPro; IPR007110; IG_LIKE.
CC InterPro; IPR003596; IG_V.
CC SMART; SM00406; IGV; 1.
CC PROSITE; PS50835; IG_LIKE; 1.
KW Immunoglobulin V region; signal.
FT SIGNAL 1 19
FT CHAIN 20 117 Ig lambda-2 chain V region.
FT DOMAIN 20 >117 Ig-like.
FT NON_TER 117 117
SQ SEQUENCE 117 AA; 12222 MW; 43FDF197419B42A6 CRC64;

```

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM protein - protein search, using sw model

Run on: March 21, 2006, 18:05:40 ; Search time 33.5887 Seconds
(without alignments)
317.523 Million cell updates/sec

Title: US-10-768-193-8

Perfect score: 668

Sequence: 1 MAMTSLILSLALCGASSQ.....ALWYTHYVFGGKTATVAG 129

Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Issued Patents AA:*
1: /cgn2_6/prodata/1/iaa/5 COMB.pep:*
2: /cgn2_6/prodata/1/iaa/6 COMB.pep:*
3: /cgn2_6/prodata/1/iaa/7 COMB.pep:*
4: /cgn2_6/prodata/1/iaa/8 COMB.pep:*
5: /cgn2_6/prodata/1/iaa/9 COMB.pep:*
6: /cgn2_6/prodata/1/iaa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	597	89.4	128	2	US-08-348-548-2
2	597	89.4	128	4	PCR-US95-15716-2
3	552	82.6	115	6	5215889-3
4	545	81.6	269	1	US-08-428-257A-72
5	545	81.6	269	1	US-08-491-988-3
6	545	81.6	402	1	US-08-491-988-9
7	545	81.6	415	1	US-08-491-988-7
8	545	81.6	435	1	US-08-491-988-5
9	535	80.1	112	2	US-09-157-370-6
10	512	76.6	109	2	US-09-232-290-14
11	507	75.9	110	1	US-08-122-546-14
12	507	75.9	110	1	US-08-764-938-14
13	507	75.9	110	2	US-09-131-052-14
14	507	75.9	110	2	US-09-131-053A-14
15	503.5	75.4	111	2	US-09-232-290-11
16	495.5	74.2	109	2	US-09-865-483-7
17	495.5	74.2	109	2	US-10-726-555-7
18	495	74.1	106	1	US-08-440-354-2
19	495	74.1	106	1	US-08-463-087-2
20	490	73.4	109	1	US-08-672-345C-1
21	490	73.4	109	2	US-09-214-095D-1
22	490	73.4	109	2	US-09-940-727B-1
23	486	72.8	109	1	US-08-672-345C-2
24	486	72.8	109	2	US-09-214-095D-2
25	486	72.8	109	2	US-09-940-727B-2
26	477	71.4	109	1	US-08-672-345C-3
27	477	71.4	109	2	US-09-214-095D-3

28	477	71.4	109	2	US-09-214-095D-121	Sequence 121, App
29	477	71.4	109	2	US-09-940-727B-3	Sequence 3, Appl
30	477	71.4	109	2	US-09-940-727B-121	Sequence 121, App
31	475	71.1	109	1	US-08-672-345C-93	Sequence 93, Appl
32	462	69.2	109	1	US-08-672-345C-4	Sequence 4, Appl
33	446	66.8	99	1	US-08-672-345C-91	Sequence 91, Appl
34	446	66.8	99	2	US-09-214-095D-92	Sequence 92, Appl
35	446	66.8	99	2	US-09-940-727B-92	Sequence 92, Appl
36	442	66.2	99	2	US-09-214-095D-88	Sequence 88, Appl
37	442	66.2	99	2	US-09-940-727B-88	Sequence 88, Appl
38	442	66.2	200	6	5189147-10	Patent No. 5189147
39	423.5	63.4	99	1	US-08-672-345C-92	Sequence 92, Appl
40	414	62.0	100	2	US-09-214-095D-96	Sequence 96, Appl
41	414	62.0	100	2	US-09-940-727B-96	Sequence 96, Appl
42	412	61.7	98	1	US-08-672-345C-94	Sequence 94, Appl
43	402	60.2	98	2	US-09-214-095D-4	Sequence 4, Appl
44	402	60.2	98	2	US-09-940-727B-4	Sequence 4, Appl
45	368.5	55.2	240	2	US-09-049-672A-11	Sequence 11, Appl

ALIGNMENTS

RESULT 1
US-08-348-548-2
Sequence 2, Application US/08348548
Patent No. 6258529
GENERAL INFORMATION:
APPLICANT: Berdoz, Jose
TITLE OF INVENTION: PCR AMPLIFICATION OF REARRANGED GENOMIC
TITLE OF INVENTION: VARIABLE REGIONS OF IMMUNOGLOBULIN GENES
NUMBER OF SEQUENCES: 108
CORRESPONDENCE ADDRESS:
ADDRESSER: Fish & Richardson
STREET: 225 Franklin Street, Suite 3100
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/348,548
FILING DATE: 01-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: Clark, Paul T.
REGISTRATION NUMBER: 30,162
REFERENCE/DOCKET NUMBER: 06132/009001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
TELEFAX: (617) 542-5070
TELEX: 200154
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 128 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-348-548-2

Query Match 89.4%; Score 597; DB 2; Length 128;
Best Local Similarity 90.6%; Pred. No. 4.4e-50;
Matches 116; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

QY 1 MAMTSLILSLALCGASSQAVVTQESALITSPGCTVILTCRSSGTGAVTTSNYANWQEK 60
DB 1 MAMTSLILSLALCGASSQAVVTQESALITSPGCTVILTCRSSGTGAVTTSNYANWQEK 60

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM protein - protein search, using sw model

Run on: March 21, 2006, 18:06:30 ; Search time 116.343 Seconds
(without alignments)
463.284 Million cell updates/sec

Title: US-10-768-193-8

Perfect score: 668
Sequence: 1 MAWTSILSLALCSGASSQ.....ALMSTHYVFGGKTVTLG 129

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: Published Applications MA_Main:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
- 2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
- 3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
- 4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
- 5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
- 6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	668	100.0	129	4	US-10-768-193-8
2	535	80.1	112	5	US-10-816-938-8
3	531	79.5	110	5	US-10-816-938-21
4	519	77.7	110	4	US-10-774-076-5
5	513	76.8	110	4	US-10-350-555-1
6	513	76.8	110	4	US-10-625-047-1
7	513	76.8	110	5	US-10-631-258-1
8	513	76.8	110	5	US-10-854-735-1
9	513	76.8	110	5	US-10-835-533-1
10	510	76.3	108	4	US-10-305-368-4
11	508	76.0	109	4	US-10-328-190-14
12	508	76.0	109	4	US-10-350-555-21
13	508	76.0	109	4	US-10-350-555-29
14	508	76.0	109	4	US-10-625-047-21
15	508	76.0	109	4	US-10-625-047-29
16	508	76.0	109	5	US-10-631-258-21
17	508	76.0	109	5	US-10-631-258-29
18	508	76.0	109	5	US-10-854-735-21
19	508	76.0	109	5	US-10-835-533-21
20	505	75.6	109	4	US-10-350-555-22
21	505	75.6	109	4	US-10-625-047-22
22	505	75.6	109	5	US-10-631-258-22
23	505	75.6	109	5	US-10-854-735-22
24	505	75.6	109	5	US-10-835-533-22
25	505	75.6	218	4	US-10-350-555-27
26	505	75.6	218	4	US-10-625-047-27
27	505	75.6	218	5	US-10-631-258-27

28	504	75.4	109	4	US-10-350-555-23	Sequence 23, Appl
29	504	75.4	109	4	US-10-625-047-23	Sequence 23, Appl
30	504	75.4	109	5	US-10-631-258-23	Sequence 23, Appl
31	504	75.4	109	5	US-10-854-735-23	Sequence 23, Appl
32	504	75.4	109	5	US-10-835-533-23	Sequence 23, Appl
33	504	75.4	218	4	US-10-350-555-28	Sequence 28, Appl
34	504	75.4	218	4	US-10-625-047-28	Sequence 28, Appl
35	504	75.4	218	5	US-10-631-258-28	Sequence 28, Appl
36	495.5	74.2	109	3	US-09-865-483-7	Sequence 7, Appl
37	495.5	74.2	109	4	US-10-726-555-7	Sequence 7, Appl
38	495	74.1	218	4	US-10-379-392-159	Sequence 159, App
39	490	73.4	109	4	US-09-940-727B-1	Sequence 1, Appl
40	486	72.8	107	4	US-10-328-180-10	Sequence 10, Appl
41	486	72.8	109	3	US-09-940-727B-2	Sequence 2, Appl
42	477	71.4	109	3	US-09-940-727B-3	Sequence 3, Appl
43	477	71.4	109	3	US-09-940-727B-121	Sequence 121, App
44	469	70.2	218	4	US-10-379-392-161	Sequence 161, App
45	460	68.9	218	4	US-10-379-392-164	Sequence 164, App

ALIGNMENTS

```
RESULT 1
US-10-768-193-8
; Sequence 8, Application US/10768193
; Publication No. US20040181042A1
; GENERAL INFORMATION:
; APPLICANT: MEDICAL & BIOLOGICAL LABORATORIES CO., LTD.
; APPLICANT: THE director of Chubu National Hospital
; APPLICANT: YAMAGISAWA, Katsuhiko
; APPLICANT: SHIBATA, Masao
; TITLE OF INVENTION: Antibody recognizing GM1 ganglioside-bound
; FILE REFERENCE: P0102402
; CURRENT APPLICATION NUMBER: US/10/768, 193
; PRIOR FILING DATE: 2004-02-02
; PRIOR APPLICATION NUMBER: JP P2001-235700
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: PCT/JP02/07874
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 129
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-768-193-8

Query Match 100.0%; Score 668; DB 4; Length 129;
Best local similarity 100.0%; Pred. No. 2.8e-55;
Matches 129; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAWTSILSLALCSGASSQAVVTOESALTSPGCVIILCRSGTAVTSTNANVQEK 60
DB 1 MAWTSILSLALCSGASSQAVVTOESALTSPGCVIILCRSGTAVTSTNANVQEK 60
QY PHLFTGLIGTSNRAPGVPRFSGSLIDKALITTTGAOTEDDANVFCALMSTHYVFG 120
DB 61 PHLFTGLIGTSNRAPGVPRFSGSLIDKALITTTGAOTEDDANVFCALMSTHYVFG 120
QY 121 GGTXTVTLG 129
DB 121 GGTXTVTLG 129

RESULT 2
US-10-816-938-8
; Sequence 8, Application US/10816938
; Publication No. US20040229301A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Baiyang
; TITLE OF INVENTION: Tissue Factor Antibodies and Uses Thereof
```

FILE REFERENCE: 1861.1670002
 CURRENT APPLICATION NUMBER: US/10/816,938
 CURRENT FILING DATE: 2004-04-05
 NUMBER OF SEQ ID NOS: 35
 SOFTWARE: PatentIn version 3.2
 SEQ ID NO 8
 LENGTH: 112
 TYPE: PRT
 ORGANISM: Mus sp.
 US-10-816-938-8

Query Match
 Best Local Similarity 80.1%; Score 535; DB 5; Length 112;
 Match Local Similarity 91.8%; Pred. No. 8, 7e-43;
 Matches 101; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

QY 20 QAVTQESALTTSPGGTVILTCRSSGTAVTTSNYANWVOEKPDHLFTGLIGTSNRAPGV 79
 DB 1 QAVTQESALTTSPGGTVILTCRSSGTAVTTSNYANWVOEKPDHLFTGLIGTSNRAPGV 60
 QY 80 PVRFGSLIGDKAALTTTGAQTEDDAMFCAIWMSTHYVFGGTVTVLG 129
 DB 61 PARFSGSLIGDKAALTTTGAQTEDEAIYFCALWMSNHVFGGTVTLTVLG 110

RESULT 3

US-10-816-938-21
 Sequence 21, Application US/10816938
 Publication No. US20040229301A1
 GENERAL INFORMATION:

APPLICANT: Wang, Baiyang
 TITLE OF INVENTION: Tissue Factor Antibodies and Uses Thereof
 FILE REFERENCE: 1861.1670002
 CURRENT APPLICATION NUMBER: US/10/816,938
 CURRENT FILING DATE: 2004-04-05
 NUMBER OF SEQ ID NOS: 35
 SOFTWARE: PatentIn version 3.2
 SEQ ID NO 21
 LENGTH: 110
 TYPE: PRT
 ORGANISM: Mus sp.
 US-10-816-938-21

Query Match
 Best Local Similarity 79.5%; Score 531; DB 5; Length 110;
 Match Local Similarity 90.9%; Pred. No. 2e-42;
 Matches 100; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

QY 20 QAVTQESALTTSPGGTVILTCRSSGTAVTTSNYANWVOEKPDHLFTGLIGTSNRAPGV 79
 DB 1 QAVTQESALTTSPGGTVILTCRSSGTAVTTSNYANWVOEKPDHLFTGLIGTSNRAPGV 60
 QY 80 PVRFGSLIGDKAALTTTGAQTEDDAMFCAIWMSTHYVFGGTVTVLG 129
 DB 61 PARFSGSLIGDKAALTTTGAQTEDEAIYFCALWMSNHVFGGTVTLTVLG 110

RESULT 4

US-10-774-076-5
 Sequence 5, Application US/10774076
 Publication No. US20040210040A1
 GENERAL INFORMATION:

APPLICANT: Protein Design Labs, Inc.
 APPLICANT: Landolf, et al.
 TITLE OF INVENTION: Amphipathic Antibodies and Their Use to Treat Cancer and
 TITLE OF INVENTION: Psoriasis
 FILE REFERENCE: 05882.0064.NPUS01
 CURRENT APPLICATION NUMBER: US/10/774,076
 CURRENT FILING DATE: 2004-02-06
 NUMBER OF SEQ ID NOS: 39
 SOFTWARE: PatentIn version 3.2
 SEQ ID NO 5
 LENGTH: 110
 TYPE: PRT
 ORGANISM: Mus sp.

US-10-774-076-5

Query Match
 Best Local Similarity 77.7%; Score 519; DB 4; Length 110;
 Match Local Similarity 90.0%; Pred. No. 2.8e-41;
 Matches 99; Conservative 4; Mismatches 7; Indels 0; Gaps 0;

QY 20 QAVTQESALTTSPGGTVILTCRSSGTAVTTSNYANWVOEKPDHLFTGLIGTSNRAPGV 79
 DB 1 QAVTQESALTTSPGGTVILTCRSSGTAVTTSNYANWVOEKPDHLFTGLIGTSNRAPGV 60
 QY 80 PVRFGSLIGDKAALTTTGAQTEDDAMFCAIWMSTHYVFGGTVTVLG 129
 DB 61 PARFSGSLIGDKAALTTTGAQTEDEAIYFCALWMSNHVFGGTVTLTVLG 110

RESULT 5

US-10-350-555-1
 Sequence 1, Application US/10350555
 Publication No. US20040146934A1
 GENERAL INFORMATION:

APPLICANT: Meares, Claude
 APPLICANT: Cornillie, Todd
 TITLE OF INVENTION: The Regents of the University of California
 FILE REFERENCE: 023070-130900US
 CURRENT APPLICATION NUMBER: US/10/350,555
 CURRENT FILING DATE: 2003-01-23
 NUMBER OF SEQ ID NOS: 72
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 1
 LENGTH: 110
 TYPE: PRT
 ORGANISM: Mus musculus
 FEATURE:
 OTHER INFORMATION: murine monoclonal antibody 2D12.5 light chain
 US-10-350-555-1

Query Match
 Best Local Similarity 76.8%; Score 513; DB 4; Length 110;
 Match Local Similarity 87.3%; Pred. No. 1e-40;
 Matches 96; Conservative 6; Mismatches 8; Indels 0; Gaps 0;

QY 20 QAVTQESALTTSPGGTVILTCRSSGTAVTTSNYANWVOEKPDHLFTGLIGTSNRAPGV 79
 DB 1 QAVTQESALTTSPGGTVILTCRSSGTAVTTSNYANWVOEKPDHLFTGLIGTSNRAPGV 60
 QY 80 PVRFGSLIGDKAALTTTGAQTEDDAMFCAIWMSTHYVFGGTVTVLG 129
 DB 61 PARFSGSLIGDKAALTTTGAQTEDEAIYFCALWMSNHVFGGTVTLTVLG 110

RESULT 6

US-10-625-047-1
 Sequence 1, Application US/10625047
 Publication No. US20040198962A1
 GENERAL INFORMATION:

APPLICANT: Meares, Claude
 APPLICANT: Cornillie, Todd
 TITLE OF INVENTION: The Regents of the University of California
 FILE REFERENCE: 023070-130910US
 CURRENT APPLICATION NUMBER: US/10/625,047
 CURRENT FILING DATE: 2003-07-22
 PRIOR APPLICATION NUMBER: US 10/350,555
 PRIOR FILING DATE: 2003-01-23
 NUMBER OF SEQ ID NOS: 72
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 1
 LENGTH: 110
 TYPE: PRT
 ORGANISM: Mus musculus
 FEATURE:
 OTHER INFORMATION: murine monoclonal antibody 2D12.5 light chain

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM protein - protein search, using sw model

Run on: March 21, 2006, 18:07:45 ; Search time 14.117 Seconds
(without alignments)
261.554 Million cell updates/sec

Title: US-10-768-193-8

Perfect score: 668

Sequence: 1 MATNTSLILSLALCSGASQ.....ALWYTHYVGGTKYTVLG 129

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 169630 seqs, 28622889 residues

Total number of hits satisfying chosen parameters: 169630

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA New:
1: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
2: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
5: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep:*
6: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
7: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep:*
8: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	495.5	74.2	109	US-10-726-554-7	Sequence 7, Appl
2	444.5	66.5	109	US-11-100-553B-37	Sequence 37, Appl
3	437.5	65.5	109	US-11-100-553B-36	Sequence 36, Appl
4	350	52.4	245	US-11-054-515-1523	Sequence 1523, Ap
5	329.5	49.3	240	US-11-000-463-248	Sequence 248, Ap
6	327.5	49.0	249	US-11-054-515-1838	Sequence 1838, Ap
7	323	48.4	108	US-11-064-174-51	Sequence 51, Appl
8	323	48.4	108	US-11-064-174-52	Sequence 52, Appl
9	321	48.1	108	US-11-064-174-166	Sequence 166, Appl
10	315.5	47.2	111	US-11-155-775-36	Sequence 890, App
11	312.5	46.8	251	US-11-054-515-890	Sequence 891, App
12	312.5	46.8	251	US-11-054-515-891	Sequence 894, App
13	312.5	46.8	251	US-11-054-515-894	Sequence 903, App
14	312.5	46.8	251	US-11-054-515-903	Sequence 910, App
15	312.5	46.8	251	US-11-054-515-910	Sequence 912, Ap
16	312.5	46.8	251	US-11-054-515-1121	Sequence 1121, Ap
17	312.5	46.8	251	US-11-054-515-1126	Sequence 1140, Ap
18	312.5	46.8	251	US-11-054-515-1140	Sequence 1141, Ap
19	312.5	46.8	251	US-11-054-515-1141	Sequence 1147, Ap
20	312.5	46.8	251	US-11-054-515-1147	Sequence 1148, Ap
21	312.5	46.8	251	US-11-054-515-1148	Sequence 1157, Ap
22	312.5	46.8	251	US-11-054-515-1157	Sequence 1162, Ap
23	312.5	46.8	251	US-11-054-515-1162	Sequence 1173, Ap
24	312.5	46.8	251	US-11-054-515-1373	Sequence 720, App
25	311	46.6	119	US-11-000-463-720	Sequence 720, App

26	309.5	46.3	251	US-11-054-515-1127	Sequence 1127, Ap
27	307	46.0	108	US-11-064-174-53	Sequence 53, Appl
28	305.5	45.7	251	US-11-054-515-1151	Sequence 1151, Ap
29	301.5	45.1	251	US-11-054-515-1166	Sequence 1166, Ap
30	296.5	44.4	251	US-11-054-515-1152	Sequence 1152, Ap
31	291	43.6	98	US-11-084-554-219	Sequence 219, App
32	291	43.6	98	US-11-136-250-219	Sequence 220, App
33	287	43.0	98	US-11-084-554-220	Sequence 220, App
34	287	43.0	98	US-11-136-250-220	Sequence 220, App
35	281.5	42.1	251	US-11-054-515-1149	Sequence 1149, Ap
36	275.5	41.2	253	US-11-054-515-1938	Sequence 1938, Ap
37	270	40.4	232	US-11-000-463-343	Sequence 343, App
38	267.5	40.0	231	US-11-000-463-283	Sequence 283, App
39	265.5	39.7	249	US-11-054-515-1312	Sequence 1312, Ap
40	264.5	39.6	244	US-11-054-515-1842	Sequence 1842, Ap
41	264	39.5	99	US-11-084-554-221	Sequence 221, App
42	264	39.5	99	US-11-136-250-221	Sequence 221, App
43	261	39.1	253	US-11-054-515-1364	Sequence 1364, Ap
44	259	38.8	236	US-11-000-463-815	Sequence 815, App
45	255	38.2	245	US-11-054-515-1864	Sequence 1864, Ap

ALIGNMENTS

```
RESULT 1
US-10-726-554-7
Sequence 7, Application US/10726554
GENERAL INFORMATION:
APPLICANT: LEE, Jong Wook et al.
TITLE OF INVENTION: A VARIABLE REGION OF THE MONOCLONAL ANTIBODY AGAINST
THE HBV S-SURFACE
FILE REFERENCE: 1599-0197P
CURRENT APPLICATION NUMBER: US/10/726,554*
CURRENT FILING DATE: 2003-12-04
PRIOR APPLICATION NUMBER: US/09/865,483
PRIOR FILING DATE: PRIORITY FILING DATE: 2001-03-29
NUMBER OF SEQ ID NOS: 14
SOFTWARE: PatentIn version 3.1
SEQ ID NO 7
LENGTH: 109
TYPE: PRT
ORGANISM: Escherichia coli
US-10-726-554-7

Query Match 74.2%; Score 495.5; DB 6; Length 109;
Best Local Similarity 85.5%; Pred. No. 1.5e-35;
Matches 94; Conservative 10; Mismatches 5; Indels 1; Gaps 1;

Cy 20 QAVVQESALTTSPGGTVILTCRSSGTGAVTTSYANVVOEKPHLFTGLIGTGNRAAGV 79
Db 1 QAVVQESALTTSPGGTVILTCRSSGTGAVTTSYANVVOEKPHLFTGLIGTGNRAAGV 60
1 QAVVQESALTTSPGGTVILTCRSSGTGAVTTSYANVVOEKPHLFTGLIGTGNRAAGV 60
80 PVRPSSGLIDKXALTTGAQTEDDANFYCALWYTHYVGGTKYTVLG 129
Db 61 PARFSSGLIDKXALTTGAQTEDDANFYCALWYTHYVGGTKYTVLG 109

RESULT 2
US-11-100-553B-37
Sequence 37, Application US/11100553B
GENERAL INFORMATION:
APPLICANT: HENI 11, KANG, et al.
TITLE OF INVENTION: HUMANIZED ANTIBODY AGAINST S-SURFACE ANTIGEN OF HEPATITIS B VIRUS
FILE REFERENCE: Q87350
CURRENT APPLICATION NUMBER: US/11/100,553B
CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: KRI0-2004-25573
PRIOR FILING DATE: 2004-04-14
NUMBER OF SEQ ID NOS: 43
```

```

; SOFTWARE: Koparentin 1.71
; SEQ ID NO 37
; LENGTH: 109
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: variable region of humanized light chain LFW22-312
US-11-100-553B-37

Query Match
Best Local Similarity 76.4%; Score 444.5; DB 7; Length 109;
Matches 84; Conservative 12; Mismatches 13; Indels 1; Gaps 1;

Cy 20 QAVVQESALTTSPGCTVLTCTSSGTAVTTSNVMWVQEKPDHLFTGLIGTSNRAGV 79
Db 1 QAVVQESPLTVSPGCTVLTCTSSGTAVTTSNVMWVQEKPDHLFTGLIGTSNRAGV 60

Cy 80 PVRFSGSLIGDKAALTTGAGTQEDDAMVFCALMWSYTHVFGGKTVTVLG 129
Db 61 PARFSGSLIGDKAALTTGAGTQEDDAMVFCALMWN-NMVFSGGKTVTVLG 109

RESULT 3
US-11-100-553B-36
; Sequence 36, Application US/11100553B
; Publication No. US20060014937A1
; GENERAL INFORMATION:
; APPLICANT: Heul 11, KANG, et al.
; TITLE OF INVENTION: HUMANIZED ANTIBODY AGAINST S-SURFACE ANTIGEN OF HEPATITIS B VIRUS
; FILE REFERENCE: 087350
; CURRENT APPLICATION NUMBER: US/11/100,553B
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: KR10-2004-25573
; PRIOR FILING DATE: 2004-04-14
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Koparentin 1.71
; SEQ ID NO 36
; LENGTH: 109
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: variable region of humanized light chain LFW22-31
US-11-100-553B-36

Query Match
Best Local Similarity 74.5%; Score 437.5; DB 7; Length 109;
Matches 82; Conservative 14; Mismatches 13; Indels 1; Gaps 1;

Cy 20 QAVVQESALTTSPGCTVLTCTSSGTAVTTSNVMWVQEKPDHLFTGLIGTSNRAGV 79
Db 1 QAVVQESPLTVSPGCTVLTCTSSGTAVTTSNVMWVQEKPDHLFTGLIGTSNRAGV 60

Cy 80 PVRFSGSLIGDKAALTTGAGTQEDDAMVFCALMWSYTHVFGGKTVTVLG 129
Db 61 PARFSGSLIGDKAALTTGAGTQEDDAMVFCALMWN-NMVFSGGKTVTVLG 109

RESULT 4
US-11-054-515-1523
; Sequence 1523, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind B1y5
; FILE REFERENCE: PFS23P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
```

```

; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1523
; LENGTH: 245
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1523

Query Match
Best Local Similarity 60.3%; Score 350; DB 7; Length 245;
Matches 70; Conservative 13; Mismatches 31; Indels 2; Gaps 1;

Cy 16 GASSQAVVQESALTTSPGCTVLTCTSSGTAVTTSNVMWVQEKPDHLFTGLIGTSNR 75
Db 130 GGSQAVVQESPLTVSPGCTVLTCTSSGTAVTTSNVMWVQEKPDHLFTGLIGTSNR 189

Cy 76 APGVPRFSGSLIGDKAALTTGAGTQEDDAMVFCALMWSYTHVFGGKTVTVLG 129
Db 190 HSWTPARFSGSLIGDKAALTTGAGTQEDDAMVFCALMWN-NMVFSGGKTVTVLG 245

RESULT 5
US-11-000-463-248
; Sequence 248, Application US/11000463
; Publication No. US20050266423A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Chen, Rui-hong B.
; APPLICANT: Qian, Xiaohong B.
; APPLICANT: Wang, Zhilwei
; APPLICANT: Wehrman, Tom
; APPLICANT: Zhang, Jie
; APPLICANT: Zhou, Ping
; APPLICANT: Cao, Yi-Cheng
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
; FILE REFERENCE: 785CIP4CN
; CURRENT APPLICATION NUMBER: US/11/000,463
; CURRENT FILING DATE: 2004-11-28
; PRIOR APPLICATION NUMBER: 10/291,265
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 09/922,279
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: 09/617,746
; PRIOR FILING DATE: 2000-07-17
; PRIOR APPLICATION NUMBER: 09/631,451
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: 09/633,870
; PRIOR FILING DATE: 2000-09-15
; NUMBER OF SEQ ID NOS: 944
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 248
; LENGTH: 240
```